



Producer of Versatile Reagents-Tools
Through Bioconjugation

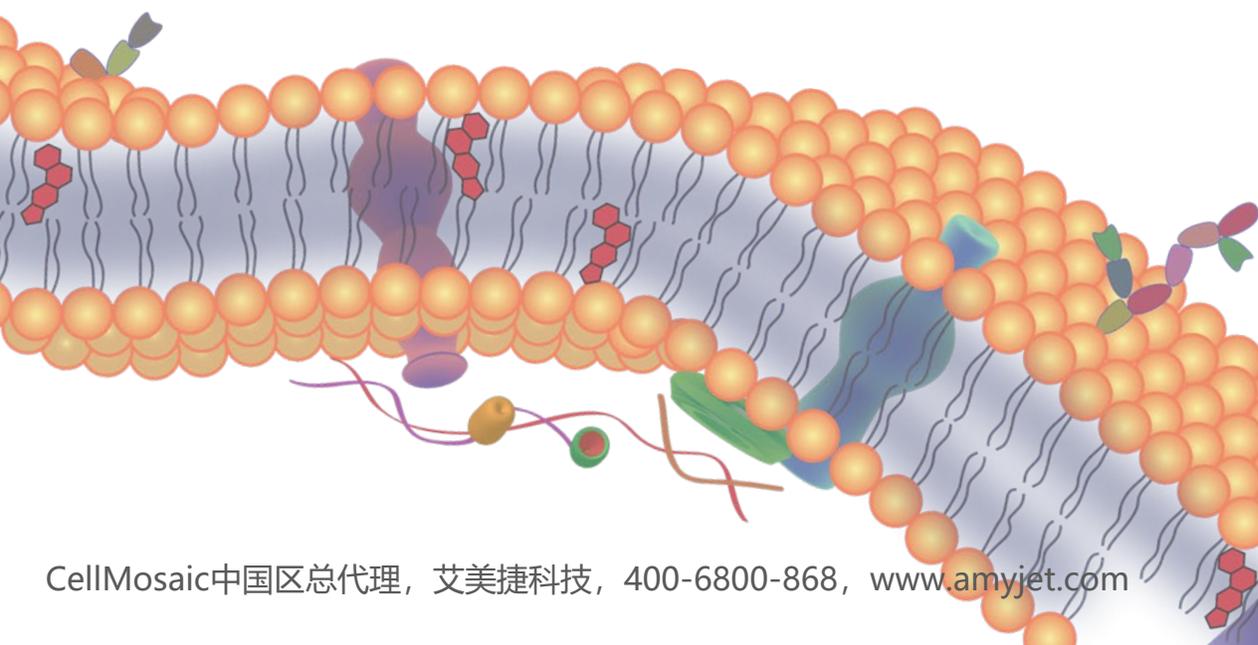


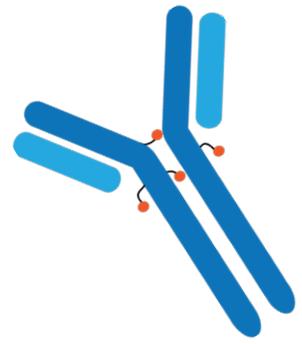
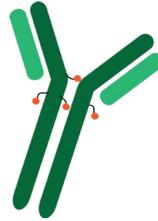
AmyJet Scientific
艾美捷科技

抗体药物偶联 (ADC)

全套解决方案

ADC Conjugation Kits





ADC抗体药物偶联试剂盒

ADC kits

CellMosaic 提供带有不同药物和偶联化学选项的 ADC 试剂盒

自行制作和纯化 ADC， 仅需数小时

使用易于操作的 ADC 试剂盒，您可以在数小时内在自己的实验室中制作和纯化 ADC。
为什么要等待数周进行定制合成？

超级性价比

mg级的 ADC，可负担的成本

完全掌控

您最了解您的抗体，它的稳定性以及如何处理它。因此，在制作 ADC 时，保持它在：您的实验室

客户验证

自 2018 年推出以来，我们的 ADC 试剂盒已成功被全球许多实验室使用



- CellMosaic 的 ADC 试剂盒可用于通过抗体上的表面氨基或还原硫醇来准备偶联物，以便对您的抗体和药物进行早期筛选
- ADC 试剂盒包含所有试剂和程序，用于将选定的药物连接到您的抗体上。您所需要的只是您的抗体
- ADC 试剂盒设计了一种纯化方法，保证在数小时内获得纯度超过 90% 的 ADC
- 一些 ADC 试剂盒允许在过程中优化任何 IgG 类型的 DAR（药物抗体比），使用硫醇还原化学
- 所有 ADC 试剂盒在 1-3 mg 的反应规模上都具有灵活性，并提供相同的 ADC 质量和回收率，无论规模大小

- CellMosaic 的典型个性化 ADC 试剂盒 (PerKits™) 从 1 到 3 mg 抗体开始，最终得到纯化的 ADC (产率 40-60%)，平均 DAR (药物抗体比) 为 2-4
- 对于未反应药物含量少于或等于 5% 的偶联物，纯度通常大于 90%。个别结果可能会因使用的特定抗体和药物的疏水性而有所不同
- 试剂盒的说明完整且易于遵循，通常可以在 6 h 内完成 (实际操作时间少于 1 h)

更多服务

- a. CellMosaic 可以为您提供 ADC 分析服务，如果您需要帮助确定通过 HPLC (高效液相色谱法) 的 DAR (药物抗体比) 和纯度
- b. 使用质谱技术确定您的偶联物的 DAR 和分子量
- c. 为低于 1 mg 的抗体定制试剂盒
- d. 使用试剂盒材料在 CellMosaic 进行定制偶联服务



Perkit™ ADC 选择指南

货号#	蛋白类型	药物	反应规模 (标准试剂盒)	反应基团	连接
CM11429	IgG Ab	No drug (VC-PAB linker only)	1-3 mg	Reduced thiol	可裂解
CM51403	IgG Ab	Acid	1-3 mg	Surface amine	不可裂解
CM11410 (x1, x3)	IgG Ab	DM1	0.1 mg, 1-3 mg	Surface amine	不可裂解
CM11406 (x1, x3)	IgG Ab	Doxorubicin	1-3 mg	Surface amine	不可裂解
CM11407 (x1, x3)	IgG Ab	Methotrexate	1-3 mg	Surface amine	不可裂解
CM11409 (x1, x3)	IgG Ab	MMAE	0.1 mg, 1-3 mg, 30 mg	Reduced thiol	可裂解
CM11422 (x1, x3)	IgG Ab	MMAF	1-3 mg	Reduced thiol	不可裂解
CM11425 (x1, x3)	IgG Ab	MMAF	1-3 mg	Reduced thiol	可裂解
CM11408 (x1, x3)	IgG Ab	SN38	1-3 mg, 30 mg	Surface amine	可裂解
CM11431 (x1, x3)	IgG Ab	Deruxtecan	1-3 mg	Reduced thiol	可裂解
CM11416 (x1, x3)	F(ab') ₂	MMAE	0.73-2.2 mg	Reduced thiol	可裂解
CM11419 (x1, x3)	F(ab') ₂	DM1	0.73-2.2 mg	Surface amine	不可裂解

使用 CellMosaic 的 ADC 试剂盒，制备 ADC 的客户选录

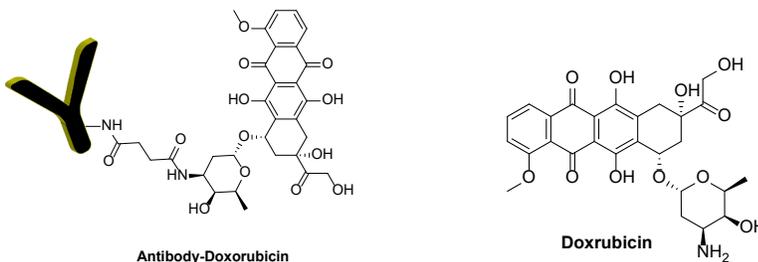
- Lofgren, Kristopher A.; Sreekumar, Sreeja; Jenkins, Charles E., Jr.; Ernzen, Kyle J.; Kenny, Paraic A. "Anti-tumor efficacy of an MMAE-conjugated antibody targeting cell surface TACE/ADAM17-cleaved Amphiregulin in breast cancer." *Antibody Therapeutics* **2021**, *4* (4), 252-261.
- Neetha Parameswaran, Liping Luo, Lingjun Zhang, Joel Chen, Frank P. DiFilippo, Charlie Androjna, David A. Fox, Sarah L. Ondrejka, Eric D. Hsi, Deepa Jagadeesh, Daniel J. Lindner & Feng Lin. "CD6-targeted antibody-drug conjugate as a new therapeutic agent for T cell lymphoma" *Leukemia* **2023** Aug 12. doi: 10.1038/s41375-023-01997-8. Online ahead of print.
- Micalizzi, Douglas S.; Che, Dante; Nicholson, Benjamin T.; Edd, Jon F.; Desai, Niyati; Lang, Evan R.; Toner, Mehmet; Maheswaran, Shyamala; Ting, David T.; Haber, Daniel A. "Targeting breast and pancreatic cancer metastasis using a dual-cadherin antibody." *PNAS* **2022**, *43* (119), e2209563119.

CM11406x1
CM11406x3

KIT CONFIGURATIONS

Antibody (Ab): any IgG
Drug: doxorubicin (adriamycin)
Scale of Reactions: 1-3 mg of IgG
No. of Reactions: one or three (x3)
Labeling Sites at Ab: surface amines
ADC Linker: succinic linker
Stability of the Linkage: stable

Antibody Doxorubicin Conjugation Kit, 抗体-多柔比星偶联试剂盒



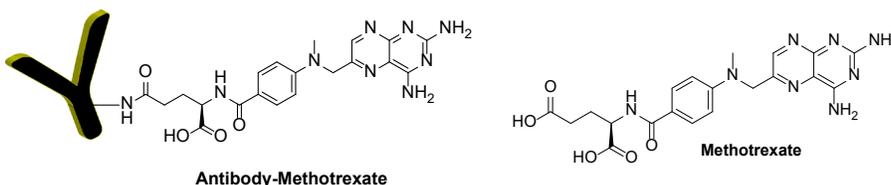
标记任何 IgG 与多柔比星 (试剂盒中包含 N-琥珀酰多柔比星酸)

CM11407x1
CM11407x3

KIT CONFIGURATIONS

Antibody (Ab): any IgG
Drug: methotrexate (amethopeterin)
Scale of Reactions: 1-3 mg of IgG
No. of Reactions: one or three (x3)
Labeling Sites at Ab: surface amines
ADC Linker: direct linkage
Stability of the Linkage: stable

Antibody Methotrexate Conjugation Kit, 抗体-甲氨蝶呤偶联试剂盒



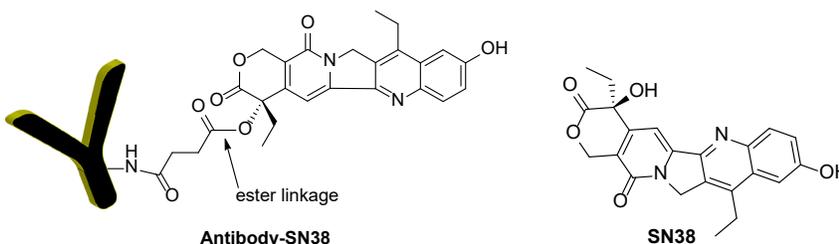
标记任何 IgG 与甲氨蝶呤 (试剂盒中包含甲氨蝶呤 NHS 酯)

CM11408x1
CM11408x3

KIT CONFIGURATIONS

Antibody (Ab): any IgG
Drug: SN38 (7-ethyl-10-hydroxycamptothecin)
Scale of Reactions: 1-3 mg of IgG
No. of Reactions: one or three (x3)
Labeling Sites at Ab: surface amines
ADC Linker: succinic linker
Stability of the Linkage: pH-sensitive ester bond

Antibody SN38 Conjugation Kit, 抗体-SN38 偶联试剂盒



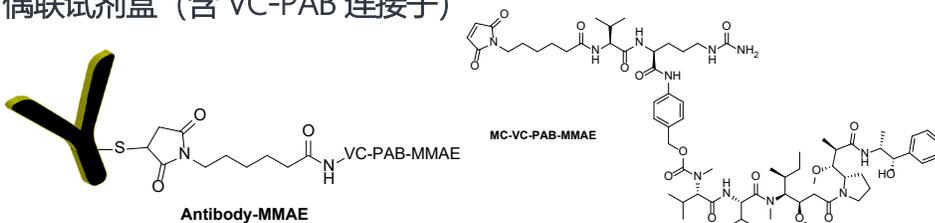
任何 IgG 抗体标记上 SN38 (试剂盒中包含 O-琥珀酰 SN38 NHS 酯)

CM11409x1
CM11409x3

KIT CONFIGURATIONS

Antibody (Ab): any IgG
Drug: MMAE
Scale of Reactions: 1-3 mg of IgG
No. of Reactions: one or three (x3)
Labeling Sites at Ab: reduced thiols
ADC Linker: Mal-VC-PAB linker
Stability of the Linkage: cathepsin B cleavable

Antibody MMAE Conjugation Kit (with VC-PAB Linkage), 抗体 -MMAE 偶联试剂盒 (含 VC-PAB 连接子)



使用缬氨酸-瓜氨酸对氨基苄基氨基甲酸酯 (VC-PAB) 连接子, 将任何 IgG 抗体标记上 MMAE

SERVICES AVAILABLE

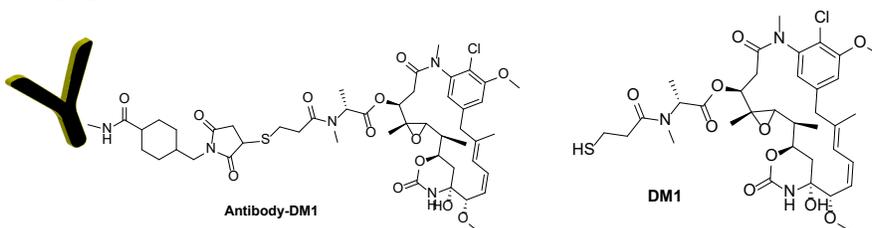
Analysis of ADC & Ab
DAR determination & MS
Technical Support

CM11410x1
CM11410x3

KIT CONFIGURATIONS

Antibody (Ab): any IgG
Drug: DM1 (mertansine)
Scale of Reactions: 1-3 mg of IgG
No. of Reactions: one or three (x3)
Labeling Sites at Ab: surface amines
ADC Linker: SMCC
Stability of the Linkage: stable

Antibody Mertansine (DM1) Conjugation Kit, 抗体-美登素 (DM1) 偶联试剂盒



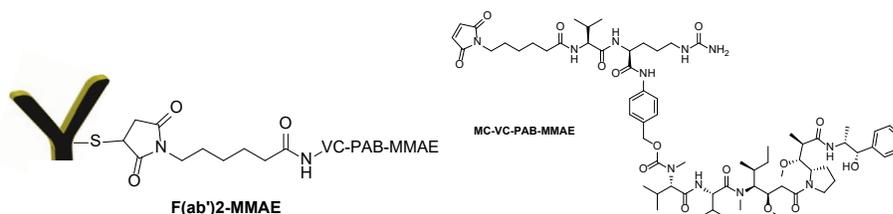
使用SMCC连接器, 将任何IgG抗体标记上美登素 (DM1)

CM11416x1
CM11416x3

KIT CONFIGURATIONS

Antibody (Ab): F(ab')₂ from any IgG
Drug: MMAE
Scale of Reactions: 0.73-2.2 mg of F(ab')₂
No. of Reactions: one or three (x3)
Labeling Sites at Ab: reduced thiols
ADC Linker: Mal-VC-PAB linker
Stability of the Linkage: cathepsin B cleavable

F(ab')₂ MMAE Conjugation Kit (With VC-PAB Linkage), F(ab')₂ - MMAE 偶联试剂盒 (含 VC-PAB 连接器)



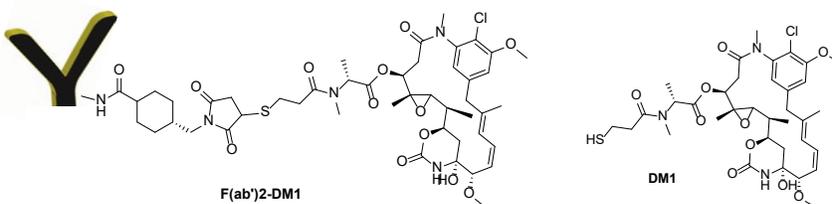
使用缬氨酸-瓜氨酸对氨基苄基氨基甲酸酯 (VC-PAB) 连接器, 将任何 F(ab')₂ 片段标记上MMAE

CM11419x1
CM11419x3

KIT CONFIGURATIONS

Antibody (Ab): F(ab')₂ from any IgG
Drug: DM1 (mertansine)
Scale of Reactions: 0.73-2.2 mg of any F(ab')₂
No. of Reactions: one or three (x3)
Labeling Sites at Ab: surface amines
ADC Linker: SMCC
Stability of the Linkage: stable

F(ab')₂ Mertansine (DM1) Conjugation Kit, F(ab')₂ -美登素 (DM1) 偶联试剂盒



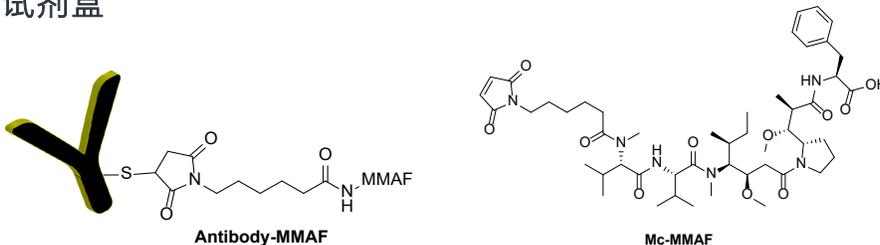
使用 SMCC连接器, 将任何 F(ab')₂ 片段标记上美登素 (DM1)

CM11422x1
CM11422x3

KIT CONFIGURATIONS

Antibody (Ab): any IgG
Drug: MMAF
Scale of Reactions: 1-3 mg of IgG
No. of Reactions: one or three (x3)
Labeling Sites at Ab: reduced thiols
ADC Linker: maleimidocaproyl
Stability of the Linkage: stable

Antibody Mc-MMAF Conjugation Kit, 抗体-Mc-MMAF 偶联试剂盒



使用马来酰亚丙酰连接器 (Mc), 将任何 IgG 抗体标记上MMAF

SERVICES AVAILABLE

Analysis of ADC & Ab
DAR determination & MS
Technical Support

CM11425x1
CM11425x3

KIT CONFIGURATIONS

Antibody (Ab): any IgG

Drug: MMAF

Scale of Reactions: 1-3 mg of IgG

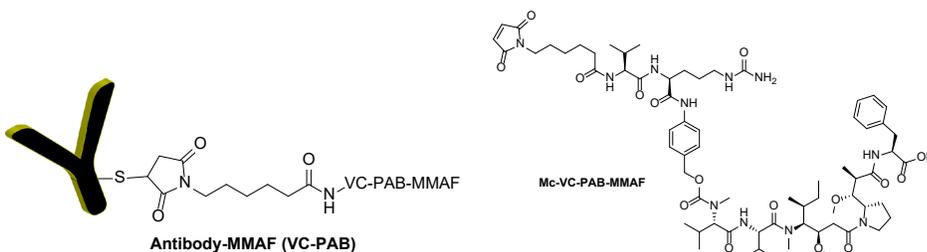
No. of Reactions: one or three (x3)

Labeling Sites at Ab: reduced thiols

ADC Linker: Mal-VC-PAB linker

Stability of the Linkage: cathepsin B cleavable

Antibody MMAF Conjugation Kit (with VC-PAB Linkage), 抗体-MMAF 偶联试剂盒 (含 VC-PAB 连接子)



使用VC-PAB连接子, 将任何 IgG 抗体标记上MMAF

CM11431x1
CM11431x3

KIT CONFIGURATIONS

Antibody (Ab): any IgG

Drug: Deruxtecan

Scale of Reactions: 1-3 mg of IgG

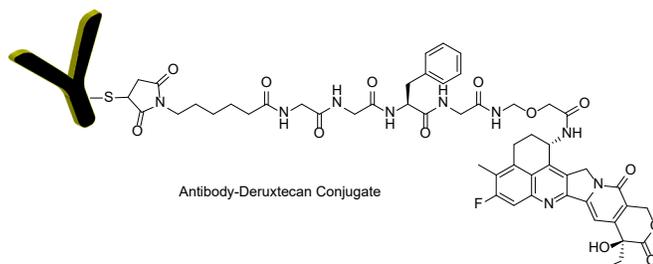
No. of Reactions: one or three (x3)

Labeling Sites at Ab: reduced thiols

ADC Linker: Mal-GGFG linker

Stability of the Linkage: enzymatically cleavable

Antibody Deruxtecan Conjugation Kit, 抗体-德鲁替康偶联试剂盒



将任何 IgG 抗体标记上 Deruxtecan, 平均药物载荷为 2-5 个药物分子

CM51403

KIT CONFIGURATIONS

Antibody (Ab): any IgG

Drug: any carboxylic acid drug

Scale of Reactions: 1-3 mg of IgG

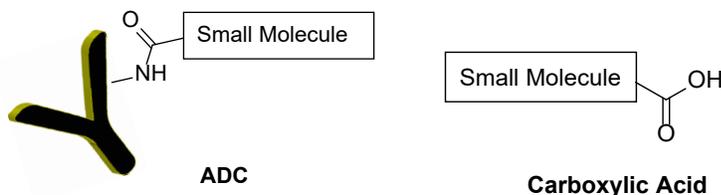
No. of Reactions: one

Labeling Sites at Ab: surface amines

ADC Linker: direct linkage

Stability of the Linkage: stable

Antibody Small Molecule Acid Conjugation Kit, 抗体小分子酸偶联试剂盒



将任何 IgG 抗体标记上含有羧酸的小分子药物 (有限制条件)

其他药物偶联试剂盒 (PDC)

CM11413x1
CM11413x3

KIT CONFIGURATIONS

Protein: any protein ≥ 20 KDa

Drug: MMAE

Scale of Reactions: 6.67-20 nmol

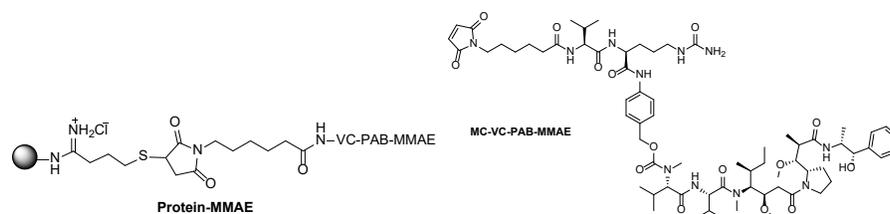
No. of Reactions: one or three (x3)

Protein Labeling Sites: surface amines

PDC Linker: Mal-VC-PAB linker

Stability of the Linkage: cathepsin B cleavable

Protein MMAE Conjugation Kit (With VC-PAB Linkage)



Labeling any protein with MMAE using a valine-citrulline p-aminobenzyl carbamate (VC-PAB) linker

CM11432x1
CM11432x3

KIT CONFIGURATIONS

Protein: any protein ≥ 20 KDa

Drug: MMAE

Scale of Reactions: 6.67-20 nmol

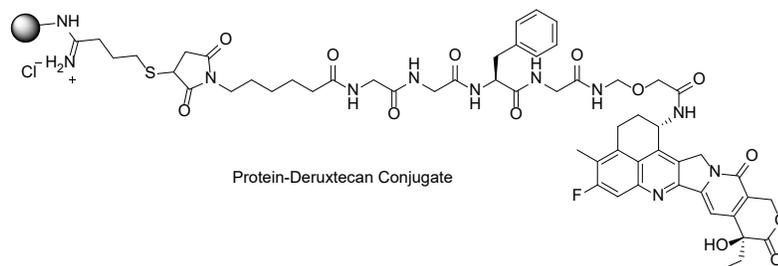
No. of Reactions: one or three (x3)

Protein Labeling Sites: reduced thiols

PDC Linker: Mal-GGFG linker

Stability of the Linkage: enzymatically cleavable

Protein Deruxtecan Conjugation Kit



Labeling any protein with Deruxtecan.

CM11430x1
CM11430x3

KIT CONFIGURATIONS

Protein: any protein ≥ 20 KDa

Drug: MMAE

Scale of Reactions: 6.67-20 nmole of protein

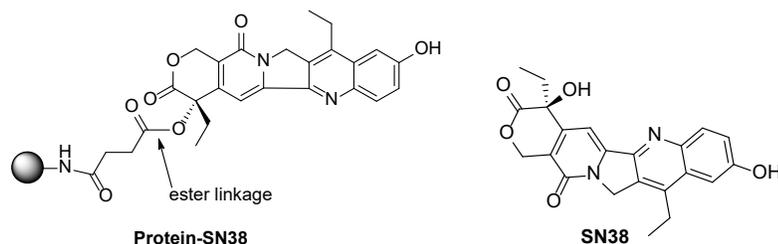
No. of Reactions: one or three (x3)

Protein Labeling Sites: surface amines

PDC Linker: succinic linker

Stability of the Linkage: pH-sensitive ester bond

Protein SN38 Conjugation Kit



Labeling any protein with SN38 (O-succinyl SN38 NHS ester included in the kit).

CM11414
CM11414x3

KIT CONFIGURATIONS

Protein: any protein ≥ 20 KDa

Drug: DM1 (mertansine)

Scale of Reactions: 6.67-20 nmole of protein

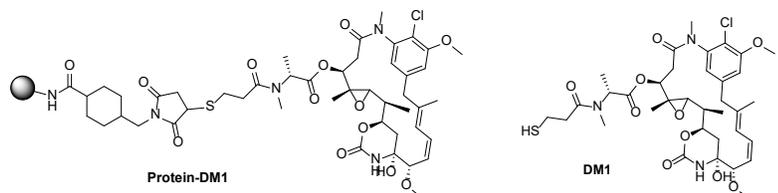
No. of Reactions: one or three (x3)

Protein Labeling Sites: surface amines

PDC Linker: SMCC

Stability of the Linkage: stable

Protein Mertansine (DM1) Conjugation Kit



Labeling any protein with DM1 using SMCC (succinimidyl trans-4-(maleimidylmethyl)cyclohexane-1-carboxylate) linker

CM52408

KIT CONFIGURATIONS

Protein: any IgG

Drug: any carboxylic acid drug

Scale of Reactions: 1-3 mg of IgG

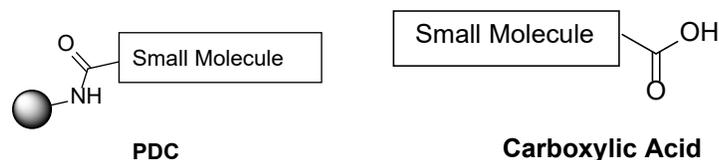
No. of Reactions: one

Protein Labeling Sites: surface amines

PDC Linker: direct linkage

Stability of the Linkage: stable

Protein Small Molecule Acid Conjugation Kit



Labeling any protein with a small molecule drug containing carboxylic acid (restrictions apply)

SERVICES AVAILABLE

Analysis of ADC & Ab
DAR determination
LC-MS (ESI)
Technical Support

相关产品

CM90005 KIT CONFIGURATIONS Number of Assays: 5 Use with CM11409(x3), CM11422(x3), CM11425(x3), CM11416(x3)	Thiol Assay Kit with Purification Kit is designed to assay the free thiol groups of a biopolymer after reducing or labeling with small molecule thiol-modification reagents. Can be used with ADC kits for optimization of drug loading.
CM90002 KIT CONFIGURATIONS Number of Assays: 10 Use with CM11410(x3), CM11419(x3), CM11414(x3)	Maleimide Assay Kit Kit is designed to assay the maleimide functional groups of a modified biopolymer, such as antibody and protein. Can be used with ADC kits to check the drug loading.
CM90005 PRODUCT CONFIGURATIONS Number of Analyses: 30 Can be used with any ADC product	Hydrophobic Interaction Chromatography (HIC) Buffer Set This high quality HIC buffer set is designed for convenient analysis of ADC and PDC following the preparation of the bioconjugates using CellMosaic's PerKit™.
CM02022 PRODUCT CONFIGURATIONS Amount: 10 mL Can be used with any ADC product	ADC Stabilizing PBS Buffer (5x) Stabilizing buffer for long-term storage of ADCs, PDCs, or any antibody/protein that has been modified with very hydrophobic small molecules. Biocompatible and will not interfere with any <i>in vitro</i> or <i>in vivo</i> studies.
CM92004 PRODUCT CONFIGURATIONS Number of Injections: 40 Can be used with any ADC product	SEC (Gel Filtration) HPLC Protein Standard (7 Components) The kit consists of six proteins and one blue dextran with a MW range of 13.7 to 2000 KDa. The broad range of protein molecular weight coverage allows easy identification of small molecules, conjugates, and aggregates in a bioconjugation mixture, such as ADC and PDC.
CM92005 PRODUCT CONFIGURATIONS Number of Injections: 25 Can be used with any ADC product	SEC (Gel Filtration) HPLC LMW Protein Standard The kit consists of four proteins with a MW range of 6.5 to 43 KDa and a small molecule with MW of 154 Da. The broad range of protein molecular weight coverage allows easy identification of small molecules, conjugates, and aggregates in a bioconjugation mixture, such as ADC and PDC.
AS0023 SERVICE (PER SAMPLE CHARGE)	SEC HPLC Analysis of Biopolymer, Conjugate, and ADC Size exclusion chromatography (SEC) HPLC is suitable for analyzing mixtures of biopolymers and separating the components according to size. It can be used to assess the extent of the bioconjugation and the degree of bioconjugate aggregation in a sample. A standard pdf file of the HPLC profile will be supplied.
AS0025 SERVICE (PER SAMPLE CHARGE)	HIC HPLC Analysis of Biopolymer, Conjugate, and ADC Hydrophobic interaction chromatography (HIC) HPLC separates components according to hydrophobicity. HIC has been used extensively to analyze drug loading in ADC or PDC. A standard pdf file of the HPLC profile will be supplied.

SERVICES AVAILABLE

Analysis of ADC & Ab
DAR determination
LC-MS (ESI)
Technical Support

<p>CM52110</p> <p>PRODUCT CONFIGURATIONS</p> <p>Amount: 1 mg and 5 mg</p>	<p>BSA-DM1 (Mertansine) Conjugate</p> <p>Designed with similar linker chemistry as T-DM1 and can be used for immunization or immunoassay.</p>
<p>CM52112</p> <p>PRODUCT CONFIGURATIONS</p> <p>Amount: 1 mg and 5 mg</p>	<p>BSA-DM4 (Ravtansine) Conjugate</p> <p>Designed with similar linker chemistry as T-DM1 and can be used for immunization or immunoassay.</p>
<p>CM52113</p> <p>PRODUCT CONFIGURATIONS</p> <p>Amount: 1 mg and 5 mg</p>	<p>BSA-MMAE Conjugate</p> <p>Designed with VC-PAB linkage and can be used for immunization or immunoassay.</p>
<p>CM52140</p> <p>PRODUCT CONFIGURATIONS</p> <p>Amount: 1 mg and 5 mg</p>	<p>BSA-Deruxtecan Conjugate</p> <p>Designed with same linkage as protein-deruxtecan conjugate and can be used for immunization or immunoassay.</p>
<p>CM62102</p> <p>PRODUCT CONFIGURATIONS</p> <p>Amount: 1 mg, 5 mg, and 10 mg</p>	<p>Fluorescein-Doxorubicin Conjugate</p> <p>For fluorescent-based assay.</p>
<p>CM53209</p> <p>PRODUCT CONFIGURATIONS</p> <p>Amount: 0.5 mg and 2 mg</p>	<p>HRP-MMAE (1:1) Conjugate</p> <p>Designed with VC-PAB linkage and can be used for immunization or immunoassay. Purified one MMAE labeled conjugate.</p>
<p>CM53210</p> <p>PRODUCT CONFIGURATIONS</p> <p>Amount: 0.5 mg and 2 mg</p>	<p>HRP-MMAE (1:2) Conjugate</p> <p>Designed with VC-PAB linkage and can be used for immunization or immunoassay. Purified two MMAE labeled conjugate.</p>
<p>CM51100</p> <p>PRODUCT CONFIGURATIONS</p> <p>Amount: 100 µg, 500 µg, and 1 mg</p>	<p>ADC Control hlgG1-MMAE Conjugate</p> <p>Control ADC for any IgG type antibody labeled with MMAE, particularly any ADC made using CellMosaic's ADC Kits. Average DAR of 4. Low endotoxin.</p>
<p>CM51102</p> <p>PRODUCT CONFIGURATIONS</p> <p>Amount: 100 µg, 500 µg, and 1 mg</p>	<p>ADC Control hlgG1-SN38 Conjugate</p> <p>Control ADC for any IgG type antibody labeled with SN38, particularly any ADC made using CellMosaic's ADC Kits. Average DAR of 4. Low endotoxin.</p>