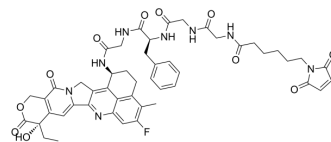


## MC-GGFG-Exatecan

Cat. No.:	HY-114233
CAS No.:	1600418-29-8
Molecular Formula:	C <sub>49</sub> H <sub>51</sub> FN <sub>8</sub> O <sub>11</sub>
Molecular Weight:	946.97
Target:	Drug-Linker Conjugates for ADC; Topoisomerase
Pathway:	Antibody-drug Conjugate/ADC Related; Cell Cycle/DNA Damage
Storage:	Powder    -20°C    3 years In solvent   -80°C    6 months -20°C    1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (52.80 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.0560 mL	5.2800 mL	10.5600 mL
	5 mM	0.2112 mL	1.0560 mL	2.1120 mL
	10 mM	0.1056 mL	0.5280 mL	1.0560 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

Description	MC-GGFG-Exatecan (MC-GGFG-DX8951) is a agent-linker conjugate for ADC. MC-GGFG-Exatecan is a DX8951 (a DNA topoisomerase I inhibitor) derivative with protease cleavable MC-GGFG linker. MC-GGFG-Exatecan shows antitumor activity and can be used to prepare DX8951 antibody conjugate (ADC) <sup>[1]</sup> .
IC <sub>50</sub> & Target	Camptothecins
In Vitro	In MC-GGFG-Exatecan, GGFG is selectively cleaved by lysosomal enzymes (presumably cathepsins) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	In MC-GGFG-Exatecan, GGFG is known to release drugs into tumor tissue without releasing them into peripheral circulation <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

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- Mol Cancer Ther. 2023 Oct 2;22(10):1128-1143.
  - Mol Cancer Ther. 2023 Sep 5;22(9):1013-1027.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

[1]. Nakada T, et al. Novel antibody drug conjugates containing exatecan derivative-based cytotoxic payloads. Bioorg Med Chem Lett. 2016 Mar 15;26(6):1542-1545.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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