MC-GGFG-Exatecan

Cat. No.: HY-114233

CAS No.: 1600418-29-8

Molecular Formula: $C_{49}H_{51}FN_8O_{11}$

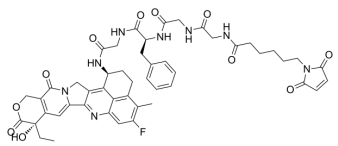
Molecular Weight: 947

Target: Drug-Linker Conjugates for ADC

Pathway: Antibody-drug Conjugate/ADC Related

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)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.0560 mL	5.2798 mL	10.5597 mL
	5 mM	0.2112 mL	1.0560 mL	2.1119 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)[1].

IC_{50} & Target

Camptothecins

In Vitro

In MC-GGFG-Exatecan, GGFG is selectively cleaved by lysosomal enzymes (presumably cathepsins)[1].

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 [1].

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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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