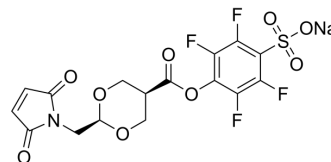


MDTF

Cat. No.:	HY-150043A		
Molecular Formula:	C ₁₆ H ₁₀ F ₄ NNaO ₉ S		
Molecular Weight:	491.3		
Target:	ADC Linker		
Pathway:	Antibody-drug Conjugate/ADC Related		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (203.54 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.0354 mL	10.1771 mL	20.3542 mL
	5 mM		0.4071 mL	2.0354 mL	4.0708 mL
	10 mM		0.2035 mL	1.0177 mL	2.0354 mL

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

BIOLOGICAL ACTIVITY

Description

MDTF is a non-cleavable ADC linker used in the synthesis of antibody-drug conjugates (ADCs)^[1].

In Vitro

MDTF (50 μM) increases hydrophilic character by substitution of a cyclohexyl ring and a MD-based FRET probe incubates in human plasma has a considerably higher self-stabilization rate compared to the MCC-based probe^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Dovgan I, et al. 2-(Maleimidomethyl)-1,3-Dioxanes (MD): a Serum-Stable Self-hydrolysable Hydrophilic Alternative to Classical Maleimide Conjugation. Sci Rep. 2016 Aug 9;6:30835.

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

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