6-Maleimidohexanoic acid N-hydroxysuccinimide ester

Cat. No.: HY-78961

CAS No.: 55750-63-5

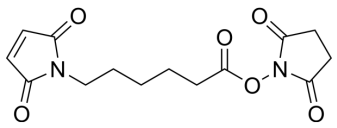
Molecular Formula: $C_{14}H_{16}N_2O_6$

Molecular Weight: 308.29

Target: ADC Linker

Pathway: Antibody-drug Conjugate/ADC Related

Storage: -20°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 230 mg/mL (746.05 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.2437 mL	16.2185 mL	32.4370 mL
	5 mM	0.6487 mL	3.2437 mL	6.4874 mL
	10 mM	0.3244 mL	1.6218 mL	3.2437 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 7.5 mg/mL (24.33 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 7.5 mg/mL (24.33 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 7.5 mg/mL (24.33 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

6-Maleimidohexanoic acid N-hydroxysuccinimide ester (EMCS) is a heterobifunctional cross-linking reagent. EMCS is used as a unique and useful reagent for preparation of hapten conjugate and enzyme immunoconjugates[1].

IC_{50} & Target

Non-cleavable Linker

In Vitro

6-Maleimidohexanoic acid N-hydroxysuccinimide ester is coupled to the peptides, and then conjugated to the Adenovirus vector containing luciferase gene as adenovirus vector carrier[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Shinya Kida, et al. Studies on heterobifunctional cross-linking reagents, 6-maleimidohexanoic acid active esters. Chem Pharm Bull (Tokyo). 2007 Apr;55(4):685-7.

[2]. Shinya Kida, et al. Evaluation of synthetic cell-penetrating peptides, Pro-rich peptide and octaargine derivatives, as adenovirus vector carrier. Protein Pept Lett. 2010 Feb;17(2):164-7.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA