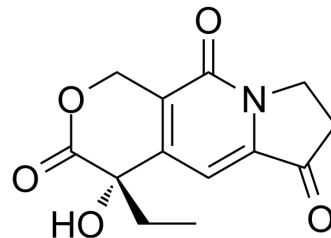


## Exatecan Intermediate 1

<b>Cat. No.:</b>	HY-42487		
<b>CAS No.:</b>	110351-94-5		
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>13</sub> NO <sub>5</sub>		
<b>Molecular Weight:</b>	263.25		
<b>Target:</b>	ADC Cytotoxin		
<b>Pathway:</b>	Antibody-drug Conjugate/ADC Related		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 25 mg/mL (94.97 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.7987 mL	18.9934 mL	37.9867 mL
	5 mM	0.7597 mL	3.7987 mL	7.5973 mL
	10 mM	0.3799 mL	1.8993 mL	3.7987 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (7.90 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (7.90 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Exatecan Intermediate 1 (compound 6) is an intermediate of Exatecan (DX-8951, HY-13631). Exatecan is an anticancer agent belonging to the class of camptothecin analogs. Exatecan interferes with the proliferation and division of tumor cells by interacting with DNA, thereby inhibiting tumor growth. Exatecan is primarily used for research of a variety of cancers including ovarian, lung and breast cancers<sup>[1][2]</sup>.

### REFERENCES

- [1]. Weng W, et al. Antibody-Exatecan Conjugates with a Novel Self-immolative Moiety Overcome Resistance in Colon and Lung Cancer. *Cancer Discov.* 2023 Apr 3;13(4):950-973.

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[2]. Zhang Hongwei, et al. Intermediate for synthesizing camptothecin derivatives using exatecan mesylate and its preparation method and application. China, CN111470998. 2020-07-31.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

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