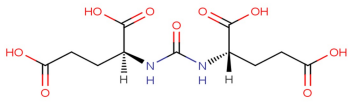
Data Sheet (Cat.No.T19301)

TargetMol
A DRUG SCREENING EXPERT

DUPA

Chemical Properties



CAS No.:	302941-52-2
Formula:	C11H16N2O9
Molecular Weight:	320.25
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	DUPA selectively delivers cytotoxic drugs to prostate cancer cells [1][2], belonging to the glutamate class, as a targeted part of drug coupling.
Targets(IC_{50})	Others: None
In vitro	DUPA is used as the targeting moiety to actively deliver Docetaxel (DTX) for treatment of prostate-specific membrane antigen (PSMA) expressing prostate cancer.
In vivo	The DUPA-indenoisoquinoline conjugate induces a complete cessation of tumor growth with no toxicity, as determined by loss of body weight and death of treated mice.

Solubility Information

Solubility	DMSO: 300 mg/mL (936.77 mM) H2O: 150 mg/mL (468.38 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.123 mL	15.613 mL	31.226 mL
5 mM	0.625 mL	3.123 mL	6.245 mL
10 mM	0.312 mL	1.561 mL	3.123 mL
50 mM	0.062 mL	0.312 mL	0.625 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Peng ZH, et al. Spacer length impacts the efficacy of targeted docetaxel conjugates in prostate-specific membrane antigen expressing prostate cancer. J Drug Target. 2013 Dec;21(10):968-80.
2. Roy J, et al. DUPA conjugation of a cytotoxic indenoisoquinoline topoisomerase I inhibitor for selective prostate cancer cell targeting. J Med Chem. 2015 Apr 9;58(7):3094-103.

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Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481