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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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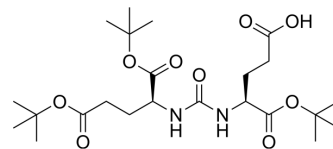
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DUPA(OtBu)-OH

Cat. No.:	HY-103591
CAS No.:	1026987-94-9
Molecular Formula:	C ₂₃ H ₄₀ N ₂ O ₉
Molecular Weight:	488.57
Target:	PSMA
Pathway:	Immunology/Inflammation
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (255.85 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	2.0468 mL	10.2339 mL	20.4679 mL
		5 mM	0.4094 mL	2.0468 mL	4.0936 mL
		10 mM	0.2047 mL	1.0234 mL	2.0468 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: ≥ 2.08 mg/mL (4.26 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.26 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.26 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	DUPA(OtBu)-OH is a DUPA precursor. DUPA is used as the targeting moiety to actively deliver Docetaxel (DTX) for treatment of Prostate-Specific Membrane Antigen (PSMA) expressing prostate cancer.
In Vitro	DUPA(OtBu)-OH (DUPA precursor 17) is a 2-[3-(1,3-dicarboxypropyl)ureido]pentanedioic acid (DUPA) reagent ^[1] . The targeting ligand DUPA enhances the transport capability and selectivity of Paclitaxel (PTX) to tumor cells via prostate-specific membrane antigen (PSMA) mediated endocytosis. Besides, DUPA is conjugated with PTX via a disulfide bond, which facilitates the rapid and differential drug release in tumor cells ^[2] .

	MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	DUPA-targeted Docetaxel (DTX) conjugate with longer spacer has no toxicity in major organs of treated mice ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Research Square Preprint. 2021 Jun.

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REFERENCES

- [1]. 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.
- [2]. Lv Q, et al. Prostate-Specific Membrane Antigen Targeted Therapy of Prostate Cancer Using a DUPA-Paclitaxel Conjugate. Mol Pharm. 2018 May 7;15(5):1842-1852.
- [3]. 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.

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

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