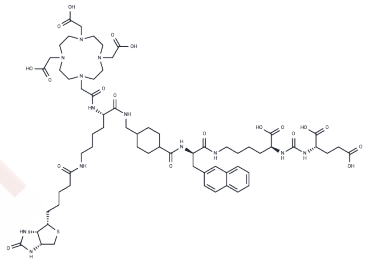
Data Sheet (Cat.No.T78412)

TargetMol

Biotin-NH-PSMA-617

Chemical Properties



CAS No. :

Formula: C65H97N13O19S

Molecular Weight: 1396.62

Storage: Keep away from direct sunlight
Store at -20°C
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Biotin-NH-PSMA-617 is a biotinylated derivative of the small molecule PSMA-617, designed to target prostate-specific membrane antigen (PSMA), which is prominently expressed on prostate tumor cells. The biotinylation of PSMA-617 enhances its ability to bind PSMA, making it a valuable tool in the targeting of prostate cancer cells for diagnostic and therapeutic applications.
Targets(IC50)	PSMA
In vitro	Biotin-NH-PSMA-617, a PSMA ligand, demonstrates significantly enhanced binding affinity to PSMA and efficient internalization into PCa cells. It can be labeled with 68Ga, 177Lu, 111In, and 90Y, allowing for its application in PET imaging and radioligand-based therapy [1].

Solubility Information

Solubility	DMSO: ≥ 40 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.716 mL	3.5801 mL	7.1601 mL
5 mM	0.1432 mL	0.716 mL	1.432 mL
10 mM	0.0716 mL	0.358 mL	0.716 mL
50 mM	0.0143 mL	0.0716 mL	0.1432 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kratochwil C, et al. Targeted alpha therapy of mCRPC: Dosimetry estimate of 213Bismuth-PSMA-617. Eur J Nucl Med Mol Imaging. 2018;45(1):31-37.

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