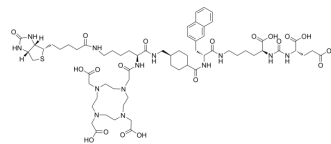


Biotin-NH-PSMA-617

Cat. No.:	HY-141729		
Molecular Formula:	C ₆₅ H ₉₇ N ₁₃ O ₁₉ S		
Molecular Weight:	1396.61		
Target:	Fluorescent Dye		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (35.80 mM)
 * "≥" means soluble, but saturation unknown.

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	0.7160 mL	3.5801 mL	7.1602 mL
	5 mM	0.1432 mL	0.7160 mL	1.4320 mL
	10 mM	0.0716 mL	0.3580 mL	0.7160 mL

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

BIOLOGICAL ACTIVITY

Description

Biotin-NH-PSMA-617 is a biotin-tagged PSMA-617. PSMA-617 is a small molecule targeting the prostate-specific membrane antigen (PSMA), which is directly expressed by the tumor cells [1].

In Vitro

PSMA-617 is a PSMA ligand. PSMA-617 shows a significantly improved binding affinity to PSMA as well as a highly efficient internalization into PCa cells. PSMA-617 can be labeled with ⁶⁸Ga, ¹⁷⁷Lu, ¹¹¹In, and ⁹⁰Y and, therefore, be used for PET-imaging as well as for radioligand-based therapy [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

[2]. Afshar-Oromieh A, et al. The Theranostic PSMA Ligand PSMA-617 in the Diagnosis of Prostate Cancer by PET/CT: Biodistribution in Humans, Radiation Dosimetry, and First Evaluation of Tumor Lesions. *J Nucl Med*. 2015;56(11):1697-1705.

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

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