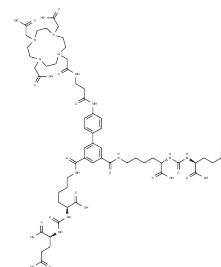


## PSMA-D5

### Chemical Properties

CAS No. :	3056440-83-3
Formula:	C57H80N12O24
Molecular Weight:	1317.31
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



### Biological Description

Description	PSMA-D5 exhibits a binding affinity for PSMA with a $K_i$ of 0.21 nM and becomes useful for PSMA tracing following radiolabeling. When marked with [68Ga], PSMA-D5 contains a DOTA chelator, facilitating the convenient labeling with therapeutic radionuclides such as 177Lu and 225Ac. Additionally, [68Ga]-labeled PSMA-D5 demonstrates exceptional pharmacokinetic properties and significant tumor uptake in 22Rv1 tumors. This compound can be employed in the synthesis and research of radiolabeled conjugates (RDC).
Targets(IC50)	PSMA
In vitro	PSMA-D5 ([68 Ga] labeled) demonstrates excellent uptake performance in PSMA-positive 22Rv1 cells, with an uptake value of 1.68.
In vivo	PSMA-D5 ([68 Ga] labeled), administered at approximately 3.7 MBq via intravenous injection, exhibits a high tumor uptake in 22Rv1 tumors (SUV max = 3.51). Compared to PSMA-11 ([68 Ga] labeled), it demonstrates improved visualization of smaller lesions, with T/M values of 32.01 and 26.8, respectively.

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7591 mL	3.7956 mL	7.5912 mL
5 mM	0.1518 mL	0.7591 mL	1.5182 mL
10 mM	0.0759 mL	0.3796 mL	0.7591 mL
50 mM	0.0152 mL	0.0759 mL	0.1518 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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