

MIP-1072

## Chemical Properties

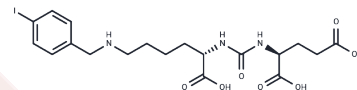
CAS No. : 949575-20-6

Formula: C<sub>19</sub>H<sub>26</sub>N<sub>3</sub>O<sub>7</sub>

Molecular Weight: 535.33

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	MIP-1072 is the prostate-specific membrane antigen inhibitor.
Targets(IC50)	Others,PSMA

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.868 mL	9.340 mL	18.6801 mL
5 mM	0.3736 mL	1.868 mL	3.736 mL
10 mM	0.1868 mL	0.934 mL	1.868 mL
50 mM	0.0374 mL	0.1868 mL	0.3736 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

Moon SH, Yang BY, Kim YJ, Hong MK, Lee YS, Lee DS, Chung JK, Jeong JM. Development of a complementary PET/MR dual-modal imaging probe for targeting prostate-specific membrane antigen (PSMA). *Nanomedicine*. 2016 May; 12(4):871-879. doi: 10.1016/j.nano.2015.12.368. Epub 2015 Dec 29. PubMed PMID: 26739097.

Barrett JA, Coleman RE, Goldsmith SJ, Vallabhajosula S, Petry NA, Cho S, Armor T, Stubbs JB, Maresca KP, Stabin MG, Joyal JL, Eckelman WC, Babich JW. First-in-man evaluation of 2 high-affinity PSMA-avid small molecules for imaging prostate cancer. *J Nucl Med*. 2013 Mar;54(3):380-7. doi: 10.2967/jnumed.112.111203. Epub 2013 Jan 9. PubMed PMID: 23303962.

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Hillier SM, Kern AM, Maresca KP, Marquis JC, Eckelman WC, Joyal JL, Babich JW. 123I-MIP-1072, a small-molecule inhibitor of prostate-specific membrane antigen, is effective at monitoring tumor response to taxane therapy. *J Nucl Med*. 2011 Jul;52(7):1087-93. doi: 10.2967/jnumed.110.086751. Epub 2011 Jun 16. PubMed PMID: 21680691.

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