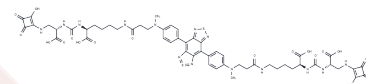


PSMA-IN-2

Chemical Properties

CAS No. :	2946600-14-0
Formula:	C54H60N14O18S2
Molecular Weight:	1257.27
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	PSMA-IN-2, an inhibitor of PSMA with a K_i value of 1.07 nM, exhibits favorable in vivo NIR imaging ($\lambda_{EM} = 1088$ nm, $\lambda_{ex} = 808$ nm) and is useful for NIRII image-guided tumor resection surgery in PSMA-positive tumor-bearing mice [1].
Targets(IC50)	PSMA
In vivo	PSMA-IN-2 (compound 24) (0.85 mg/kg, i.v., 24 h) is confirmed by NIR-II imaging to bind specifically to PSMA in vivo [1]. In 22Rv1 xenograft models [1], following an intravenous injection at a dosage of 0.85 mg/kg, the compound was excreted from the blood pool, leading to increased signal intensity in 22Rv1 xenografts over time as the background signal weakened under 808 nm laser irradiation (1100 nm long-pass filter, 400 ms), with inhibition ranging from 38% to 52% based on semi-quantitative data DCFPyL in tumors.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7954 mL	3.9769 mL	7.9537 mL
5 mM	0.1591 mL	0.7954 mL	1.5907 mL
10 mM	0.0795 mL	0.3977 mL	0.7954 mL
50 mM	0.0159 mL	0.0795 mL	0.1591 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481