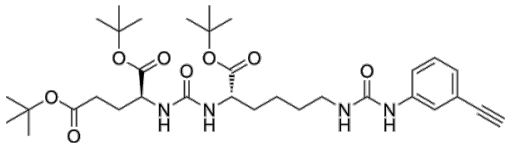
Product Data Sheet

Product Name: PSMA binder-2
Cat. No.: GC73794

Chemical Properties

Cas. No.	2149567-00-8		
Formula	$C_{33}H_{50}N_4O_8$	M.Wt	630.77
Solubility	DMSO : ≥ 100 mg/mL (158.54 mM)	Storage	-20°C, protect from light
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

PSMA binder-2 is a ligand for PSMA and can be used to synthesize Ac-PSMA-trillium. Ac-PSMA-trillium is a suitable PSMA-targeting compound with improved PSMA binding properties and pharmacokinetic properties. PSMA ligands have different biological applications after being modified with different radioactive isotopes. If labeled with 111In, it can be used as DOTA chelating agent and imaging agent. Or labeled with 225Ac as a Macropa chelator for targeted radionuclide therapy (TRT) in the study of metastatic castration-resistant prostate cancer (mCRPC).

References:

Caution: Product has not been fully validated for medical applications. For research use only.
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[1]. Sun M, et al. Prostate-Specific Membrane Antigen (PSMA)-Targeted Radionuclide Therapies for Prostate Cancer. Curr Oncol Rep. 2021 Mar 29;23(5):59.
[2]. Zitzmann-Kolbe S, et al., Preclinical evaluation of an actinium-225 labeled PSMA-targeting small molecule (225Ac-PSMA-Trillium (BAY 3563254)) for the treatment of metastatic castration resistant prostate cancer (mCRPC)[J]. Cancer Research, 2024, 84(6_Supplement): 6033-6033.

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