

Product Data Sheet

Product Name: PSMA binder-2

Cat. No.: GC73794

Chemical Properties

Cas. No. 2149567-00-8

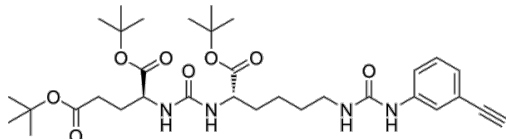
Formula $C_{33}H_{50}N_4O_8$ M.Wt 630.77

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 ^{111}In , it can be used as DOTA chelating agent and imaging agent. Or labeled with ^{225}Ac 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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