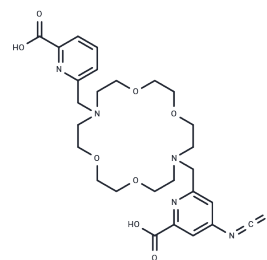


Macropa-NCS

Chemical Properties

CAS No. : 2146095-31-8
Formula: C₂₇H₃₅N₅O₈S
Molecular Weight: 589.66
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Macropa-NCS is conjugated to trastuzumab as well as to the prostate-specific membrane antigen-targeting compound RPS-070.
Targets(IC50)	Others
In vitro	A stock solution of macropa-NCS at 4.4 mg/mL was prepared in a 0.1 M NaHCO ₃ buffer (pH 9.1) with 0.154 M NaCl and stored at -80 °C. To a saline solution of Tmab (74 µL), macropa-NCS (52 µL) and NaHCO ₃ buffer (266 µL) were added, resulting in final concentrations of 5.1 mg/mL for Tmab and 0.59 mg/mL for macropa-NCS. It was estimated that macropa-NCS was present at a 16-fold molar excess relative to Tmab, taking into account the molecular weight of macropa-NCS (tetra-TFA salt) as 1045.76 g/mol[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6959 mL	8.4795 mL	16.9589 mL
5 mM	0.3392 mL	1.6959 mL	3.3918 mL
10 mM	0.1696 mL	0.8479 mL	1.6959 mL
50 mM	0.0339 mL	0.1696 mL	0.3392 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.

Reference

Thiele NA, et al. An Eighteen-Membered Macrocyclic Ligand for Actinium-225 Targeted Alpha Therapy. Angew Chem Int Ed Engl. 2017 Nov 13;56(46):14712-14717.

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