

Phenylbenzothiazole-PEG4-OH

Chemical Properties

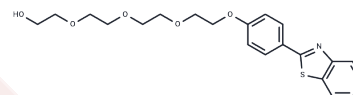
CAS No. : 2274723-90-7

Formula: C₂₁H₂₅N₂O₅S

Molecular Weight: 403.49

Storage: Keep away from moisture, Store at low temperature
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	Phenylbenzothiazole-PEG4-OH (SPG302) can treat spinal cord injury and promote the recovery of diaphragmatic activity. It can also reverse synaptic and cognitive deficits without altering amyloid or Tau pathology, and can be used in the treatment of Alzheimer's disease.
Targets(IC50)	Others
In vivo	In 3xTg-AD mice, SPG302 (3/30 mg/kg; intravenous injection; once daily for 4 weeks) restored hippocampal synaptic density and improved cognitive function in hippocampal-dependent tasks.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4784 mL	12.3919 mL	24.7838 mL
5 mM	0.4957 mL	2.4784 mL	4.9568 mL
10 mM	0.2478 mL	1.2392 mL	2.4784 mL
50 mM	0.0496 mL	0.2478 mL	0.4957 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

Stella TS, et al. Methods of treating spinal cord injury or damage. WO2022178224A2.

Trujillo-Estrada L, et al. SPG302 Reverses Synaptic and Cognitive Deficits Without Altering Amyloid or Tau Pathology in a Transgenic Model of Alzheimer's Disease. Neurotherapeutics. 2021;18(4):2468-2483.

Fogarty MJ, et al. Novel regenerative drug, SPG302 promotes functional recovery of diaphragm muscle activity after cervical spinal cord injury. J Physiol. 2023;601(12):2513-2532.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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