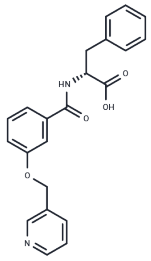
Data Sheet (Cat.No.T88533)

TargetMol

T-10418

Chemical Properties



CAS No. : 1608784-68-4

Formula: C22H20N2O4

Molecular Weight: 376.41

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	T-10418 is a highly potent and selective G2A/GPR132 agonist (EC50 = 0.82 μM) that enhances TRPV1 responses in mouse primary sensory neurons, making it suitable for studying neuropathic pain and inflammation.
Targets(IC50)	Others,GPCR
In vitro	**Methods**: T-10418 was applied at 100nM to primary mouse sensory neurons for 4 minutes to assess its effect on TRPV1 responses induced by capsaicin. In parallel, Molm13 and ML-2 leukemia cells were treated with 30μM T-10418 for 72 hours to evaluate its impact on cell proliferation and viability. **Results**: T-10418 (100nM, 4 minutes) significantly enhanced TRPV1 responses. At 30μM for 72 hours, T-10418 had no significant effect on the proliferation or viability of Molm13 and ML-2 cells.[1]

Solubility Information

Solubility	DMSO: 80 mg/mL (212.53 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 5 mg/mL (13.28 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6567 mL	13.2834 mL	26.5668 mL
5 mM	0.5313 mL	2.6567 mL	5.3134 mL
10 mM	0.2657 mL	1.3283 mL	2.6567 mL
50 mM	0.0531 mL	0.2657 mL	0.5313 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

Hernandez-Olmos V, et al., Development of a Potent and Selective G2A (GPR132) Agonist. J Med Chem. 2024 Jun 25.