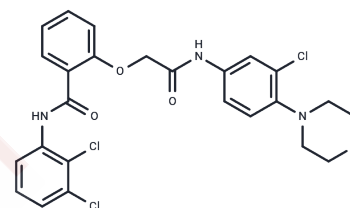


BLINK11

Chemical Properties

CAS No. : 712339-45-2
 Formula: C₂₅H₂₂Cl₃N₃O₄
 Molecular Weight: 534.82
 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	BLINK11 is a blood-brain barrier-permeable inhibitor of Cdk5. It reduces the activity of CDK5 by targeting CDK5/p35 (IC ₅₀ = 17.09 nM) and CDK5/p25 (IC ₅₀ = 14.69 nM) complexes. BLINK11 exhibits antidiabetic and neuroprotective properties, lowers blood glucose levels in type 2 diabetes (T2D) mice, enhances cognitive function, and reduces neurodegenerative lesions.
Targets(IC ₅₀)	CDK
In vitro	BLINK11, when administered at concentrations of 50 nM to 100 nM for 24 hours, reduces CDK5 activity in CDK5/p35 (IC ₅₀ = 17.09 nM) and CDK5/p25 (IC ₅₀ = 14.69 nM) complexes. In N2A cell lines overexpressing CDK5/p35 and CDK5/p25, BLINK11 decreases CDK5 activity under the same conditions. Furthermore, BLINK11 at 100-500 μM for 7 hours demonstrates the ability to cross the blood-brain barrier (BBB) and access the central nervous system. When tested across HEK293T, HepG2, and N2A cell lines, BLINK11 maintains over 50% cell viability at concentrations ranging from 25-500 μM for 24 hours.
In vivo	BLINK11 (administered at 20-40 mg/kg/day, i.p., for 20 days) has demonstrated efficacy in alleviating symptoms associated with type 2 diabetes in a mouse model fed a high-fat diet (HFD).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8698 mL	9.3489 mL	18.6979 mL
5 mM	0.374 mL	1.8698 mL	3.7396 mL
10 mM	0.187 mL	0.9349 mL	1.8698 mL
50 mM	0.0374 mL	0.187 mL	0.374 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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