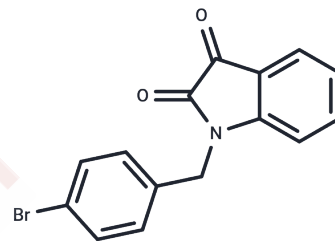


VU0119498

Chemical Properties

CAS No. : 79183-37-2
 Formula: C₁₅H₁₀BrNO₂
 Molecular Weight: 316.15
 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	VU0119498 is a M1 muscarinic receptor agonist (EC ₅₀ = 3.1 μM) and pan mAChR M3, M5 positive allosteric modulator (PAM), and is a neuroprotective agent.
Targets(IC ₅₀)	AChR
In vivo	VU0119498 treatment of wild-type mice caused a significant increase in plasma insulin levels, accompanied by a striking improvement in glucose tolerance

Solubility Information

Solubility	DMSO: 15 mg/mL (47.45 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1631 mL	15.8153 mL	31.6306 mL
5 mM	0.6326 mL	3.1631 mL	6.3261 mL
10 mM	0.3163 mL	1.5815 mL	3.1631 mL
50 mM	0.0633 mL	0.3163 mL	0.6326 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

Lu Zhu , Mario Rossi, et al. Allosteric Modulation of β -Cell M3 Muscarinic Acetylcholine Receptors Greatly Improves Glucose Homeostasis in Lean and Obese Mice. *Proc Natl Acad Sci U S A*. 2019 Sep 10;116(37):18684-18690.
Thomas M Bridges, et al. Heterobiaryl and Heterobiaryl Ether Derived M5 Positive Allosteric Modulators. *Bioorg Med Chem Lett*. 2010 Oct 1;20(19):5617-22.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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