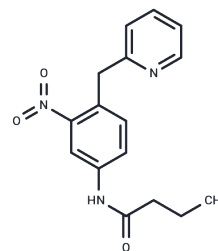


KW-6055

Chemical Properties

CAS No. : 63233-46-5
 Formula: C₁₆H₁₇N₃O₃
 Molecular Weight: 299.32
 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 | KW-6055 has anti-amnesic activity, is a benzylpyridine derivative. |
| Targets(IC50) | Others,Cholinesterase (ChE) |
| In vivo | In rats with basal forebrain lesions, KW-6055 (40 mg/kg, p.o.) significantly elevated the extracellular acetylcholine (ACh) concentration (251±22%) for over two hours, surpassing the duration observed in normal rats. This benzylpyridine derivative exhibits anti-amnesic properties. Additionally, the administration of KW-6055 (40, 160 mg/kg, p. o.) in normal rats resulted in increased extracellular ACh levels (257±23, 202±24%), indicating its potent effect on neurotransmitter regulation. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.3409 mL | 16.7045 mL | 33.4091 mL |
| 5 mM | 0.6682 mL | 3.3409 mL | 6.6818 mL |
| 10 mM | 0.3341 mL | 1.6705 mL | 3.3409 mL |
| 50 mM | 0.0668 mL | 0.3341 mL | 0.6682 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

Kurokawa M, et al. Effects of KW-6055, a novel benzylpyridine derivative, on central cholinergic systems. Nihon Yakurigaku Zasshi. 1992 Jun;99(6):435-43.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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