

BMT-124110 Formate

Chemical Properties

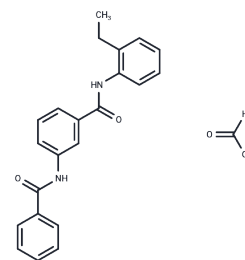
CAS No. :

Formula: C₂₂H₂₀N₂O₂

Molecular Weight: 344.41

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

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|----------------------------|---|
| Description | BMT-124110 Formate is a selective AAK1 inhibitor (IC ₅₀ : 0.9 nM) with anti-injury sensory activity. BMT-124110 Formate inhibits the BMP-2-inducible protein kinase BIKE with an IC ₅₀ : 17 nM. BMT-124110 Formate inhibits the cell-cycle protein G-related BMT-124110 Formate inhibits the cell cycle protein G-associated kinase GAK with an IC ₅₀ : 99 nM. |
| Targets(IC ₅₀) | AAK1, Serine/threonin kinase, TGF-beta/Smad |
| In vitro | BMT-124110 exhibits a cellular IC ₅₀ of 3.2±1.4 nM against AAK1.[1] |
| In vivo | BMT-124110 (30 mM; pH 4; 110–30 nA; 3 minutes; naive male rats) is added directly onto the spinal covered by micro iontophoresis, leading to a reduction in windup-induced activity in 10/14 animals.[1] |

Solubility Information

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|------------|--|
| Solubility | DMSO: 4.15 mg/mL (12.05 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 | 2.9035 mL | 14.5176 mL | 29.0352 mL |
| 5 mM | 0.5807 mL | 2.9035 mL | 5.807 mL |
| 10 mM | 0.2904 mL | 1.4518 mL | 2.9035 mL |
| 50 mM | 0.0581 mL | 0.2904 mL | 0.5807 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

Kostich W, et al. Inhibition of AAK1 Kinase as a Novel Therapeutic Approach to Treat Neuropathic Pain. J Pharmacol Exp Ther. 2016;358(3):371-386.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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