

BMT-124110

## Chemical Properties

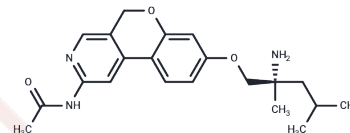
CAS No. : 1679371-59-5

Formula: C<sub>21</sub>H<sub>27</sub>N<sub>3</sub>O<sub>3</sub>

Molecular Weight: 369.46

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	BMT-124110 is a selective AAK1 inhibitor (IC <sub>50</sub> : 0.9 nM) with antinociceptive activity. BMT-090605 inhibited BMP-2 induced protein kinase BIKE with IC <sub>50</sub> of 17 nM. BMT-090605 inhibits cyclin G-associated kinase GAK with an IC <sub>50</sub> of 99 nM.
Targets(IC <sub>50</sub> )	AAK1, AAK1 (AP2 associated kinase 1)
In vitro	BMT-124110 presents a cellular IC <sub>50</sub> of 3.2 nM for AAK1[1].
In vivo	BMT-124110 is added directly to the spine by microion electrophoresis. Wind-induced activity decreased in 10 of the 14 animals.[1]

## Solubility Information

Solubility	DMSO: 27.5 mg/mL (74.43 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	2.7067 mL	13.5333 mL	27.0665 mL
5 mM	0.5413 mL	2.7067 mL	5.4133 mL
10 mM	0.2707 mL	1.3533 mL	2.7067 mL
50 mM	0.0541 mL	0.2707 mL	0.5413 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

Walter Kostich, et al. Inhibition of AAK1 Kinase as a Novel Therapeutic Approach to Treat Neuropathic Pain. J Pharmacol Exp Ther. 2016 Sep;358(3):371-86.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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