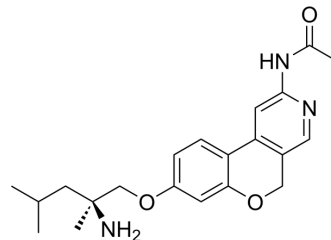


BMT-124110

Cat. No.:	HY-135871
CAS No.:	1679371-59-5
Molecular Formula:	C ₂₁ H ₂₇ N ₃ O ₃
Molecular Weight:	369.46
Target:	AAK1
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BMT-124110 is a potent, selective AAK1 inhibitor with an IC ₅₀ of 0.9 nM. BMT-124110 shows antinociceptive activity. BMT-090605 inhibits BMP-2-inducible protein kinase (BIKE) and Cyclin G-associated kinase (GAK) with IC ₅₀ s of 17 and 99 nM, respectively ^[1] .
In Vitro	BMT-124110 shows a cellular IC ₅₀ of 3.2±1.4 nM for AAK1 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	BMT-124110 is added directly onto the spinal cord by microiontophoresis, leading to reduction in windup-induced activity in 10 of 14 animals ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kostich W, 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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