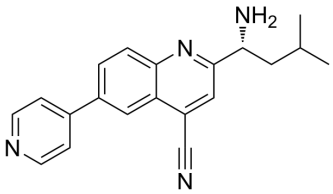
AAK1-IN-3

Cat. No.:	HY-144302
CAS No.:	1802703-20-3
Molecular Formula:	$C_{20}H_{20}N_4$
Molecular Weight:	316.4
Target:	AAK1
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AAK1-IN-3, a quinoline analogue, is a brain-penetrant adaptor protein 2-associated kinase 1 (AAK1) inhibitor with an IC_{50} of 11 nM. AAK1-IN-3 has the potential for neuropathic pain research[1].
In Vitro	AAK1-IN-3 (compound (R)-31) is brain-penetrant kinase inhibitors with a B/P ratio of 1.3[1]. AAK1-IN-3 inhibits AAK1 in HEK293 cells (IC50=108 nM)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	AAK1-IN-3 (compound (R)-31; 30 mg/kg; sc; signle dose) causes a 46% reduction of μ2 phosphorylation in C57BL6 mice[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Richard A Hartz, et al. Bicyclic Heterocyclic Replacement of an Aryl Amide Leading to Potent and Kinase-Selective Adaptor Protein 2-Associated Kinase 1 Inhibitors. J Med Chem. 2022 Mar 10;65(5):4121-4155.

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

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