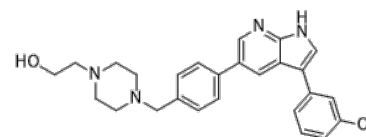


Product Name : Famlasertib
Cat. No. : PC-23624
CAS No. : 2375591-69-6
Molecular Formula : C₂₆H₂₇ClN₄O
Molecular Weight : 446.98
Target : MAP4K
Solubility : 10 mM in DMSO



CAS: 2375591-69-6

Biological Activity

Famlasertib (Prostetin/12k) is a highly potent, blood-brain barrier-penetrant inhibitor of mitogen-activated protein kinase kinase kinase (**MAP4K**) family with IC₅₀ of 0.3 nM for HGK (**MAP4K4**) and 23.7 nM for **MLK3**.

Prostetin/12k rescues cyclopiazonic acid (CPA)-induced neurodegeneration with EC₅₀ of 0.1 μM in motor neuron survival assay.

Prostetin/12k has IC₅₀ of 0.3 nM for HGK in cell-free radiolabeled ATP assays.

Prostetin/12k inhibits MLK3 with IC₅₀ of 23.7 nM, potently inhibits MAP4Ks MINK1, KHS, HGK, GLK, and GCK.

Prostetin/12k significantly and dose-dependently decreased TNFα secretion in LPS-stimulated microglia with EC₅₀ of 0.47 μM.

References

Bos PH, et al. *Cell Chem Biol*. 2019 Dec 19;26(12):1703-1715.e37.

Moreno R, et al. *Eur J Med Chem*. 2023 Sep 5;257:115511.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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