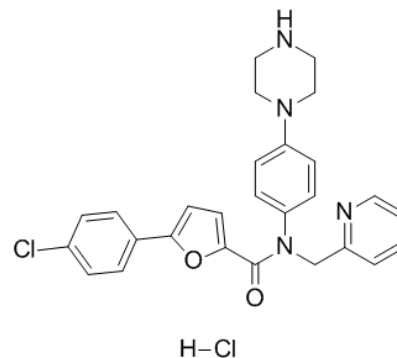


Product Name : MK2-IN-1 hydrochloride
Cat. No. : PC-43244
CAS No. : 1314118-94-9
Molecular Formula : C₂₇H₂₆Cl₂N₄O₂
Molecular Weight : 509.4269
Target : MAPKAPK2 (MK2)
Solubility : DMSO



Biological Activity

MK2-IN-1 hydrochloride is a potent, selective, non-ATP competitive MAPKAPK2 (**MK2**) inhibitor with IC₅₀ of 0.11 μM. MK2-IN-1 shows excellent kinase selectivity against a broad panel of 150 protein kinases at 10 μM with only one exception of CK1γ3 >50 % inhibition.

MK2-IN-1 inhibits pro-inflammatory cytokine secretion from the human THP1 acute monocytic leukemia cell line, causing dose-dependent inhibition of LPS-stimulated TNFα and IL6 secretion.

MK2-IN-1 also dose dependently inhibits IL1β-stimulated MMP13 secretion from the SW1353 chondrosarcoma cell line and human primary chondrocyte cultures.

References

Rao AU, et al. *Bioorg Med Chem Lett*. 2012 Jan 15;22(2):1068-72.

Huang X, et al. *Bioorg Med Chem Lett*. 2012 Jan 1;22(1):65-70.

Huang X, et al. *ACS Med Chem Lett*. 2011 Jun 24;2(8):632-7.

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

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