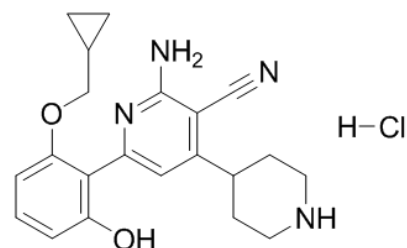


Product Name : ACHP hydrochloride
Cat. No. : PC-43364
CAS No. : 406209-26-5
Molecular Formula : C₂₁H₂₅ClN₄O₂
Molecular Weight : 400.9018
Target : IκB kinase (IKK)
Solubility : 10 mM in DMSO



Biological Activity

ACHP hydrochloride is a potent and specific inhibitor for **IKK-β** (IKK2) with IC₅₀ of 8.5 nM, moderately inhibits IKK-α with IC₅₀ of 250 nM.

ACHP exhibits good selectivity over other kinases, such as IKK3, Syk and MKK4 (IC₅₀>20 μM).

ACHP inhibits TNFα-induced RANTES production in A549 cells with IC₅₀ of 40 nM, inhibits NF-κB-dependent reporter gene activation in TNFα-activated HEK293 cells and PMA/calcium ionophore-activated Jurkat T cells.

ACHP demonstrates in vivo anti-inflammatory assays (1mg/kg, po) in arachidonic acid-induced ear edema model in mice.

ACHP also inhibits TNF-α-induced HIV-1 replication in latently infected cells with EC₅₀ of 0.56 μM.

References

Victoriano AF, et al. *Antimicrob Agents Chemother.* 2006 Feb;50(2):547-55.

Murata T, et al. *Bioorg Med Chem Lett.* 2004 Aug 2;14(15):4019-22.

Sanda T, et al. *Leukemia.* 2006 Apr;20(4):590-8.

Mia MM, et al. *J Cell Mol Med.* 2015 Dec;19(12):2780-92.

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

E-mail: tech@probechem.com