

Product Name : MK2-IN-1 hydrochloride

Synonyms : MK2 Inhibitor

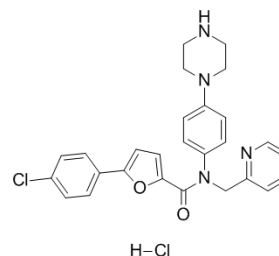
Cat No. : M11261

CAS Number : 1314118-94-9

Molecular Formula : C₂₇H₂₆Cl₂N₄O₂

Formula Weight : 509.43

Chemical Name : 2-Furancarboxamide, 5-(4-chlorophenyl)-N-[4-(1-piperazinyl)phenyl]-N-(2-pyridinylmethyl)-, hydrochloride (1:1)



Description : MK2-IN-1 is a potent, selective, non-ATP competitive MAPKAPK2(MK2) inhibitor with IC₅₀ of 0.11 μM; shows excellent kinase selectivity against a broad panel of 150 protein kinases at 10 μM with only one exception of CK1γ3 >50 % inhibition; 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; also dose dependently inhibits IL1β-stimulated MMP13 secretion from the SW1353 chondrosarcoma cell line and human primary chondrocyte cultures.

Pathway : MAPK/ERK Signaling

Target : MAPKAPK2 (MK2)

Receptor : MK2

Solubility : DMSO

SMILES : O=C(C1=CC=C(C2=CC=C(C(Cl)=C2)O1)N(C3=CC=C(N4CCNCC4)C=C3)CC5=NC=CC=C5.[H]Cl

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Rao AU, et al. Bioorg Med Chem Lett. 2012 Jan 15;22(2):1068-72. | 2. Huang X, et al. Bioorg Med Chem Lett. 2012 Jan 1;22(1):65-70. | 3. Huang X, et al. ACS Med Chem Lett. 2011 Jun 24;2(8):632-7.