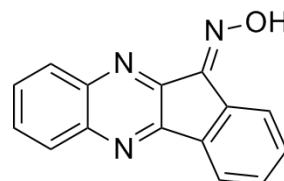


Product Name : IQ-1S
Synonyms : IQ 1S free acid
Cat No. : M13653
CAS Number : 23146-22-7
Molecular Formula : C₁₅H₉N₃O
Formula Weight : 247.25
Chemical Name : 11H-Indeno[1,2-b]quinoxalin-11-one, oxime



Description : A potent, highly specific JNK inhibitor with IC₅₀ of 390, 360, and 87 nM for JNK1, JNK2, and JNK3, respectively; does not inhibit other kinases that represent potential targets for RA treatment, including GSK-3β, JAK2, JAK3, PI3Ks, Btk, IKK-2, etc.; inhibits pro-inflammatory cytokine (IL-1α, IL-1β, IL-6, IL-10, TNF-α, IFN-γ, and GM-CSF and nitric oxide production by human and murine monocyte/macrophages; inhibits LPS-induced TNF-α and IL-6 production in MonoMac-6 cells with IC₅₀ of 0.25 and 0.61 μM, respectively; reduces inflammation and cartilage loss associated with CIA in mice model.

Pathway : MAPK/ERK Signaling

Target : JNK

Receptor : JNK1;JNK2;JNK3

Solubility : DMSO: ≥ 32 mg/mL

SMILES : O/N=C1C2=C(C3=NC4=CC=CC=C4N=C3\1)C=CC=C2

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Schepetkin IA, et al. Mol Pharmacol. 2012 Jun;81(6):832-45. 2. Schepetkin IA, et al. J Pharmacol Exp Ther. 2015 Jun;353(3):505-16. 3. Atochin DN, et al. Neurosci Lett. 2016 Apr 8;618:45-49.