

Product Name : IRAK-1-4 Inhibitor I

Synonyms : IRAK-1/4 Inhibitor I

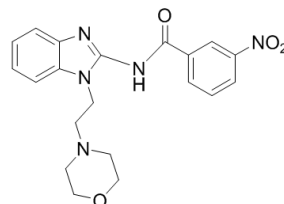
Cat No. : M14746

CAS Number : 509093-47-4

Molecular Formula : C₂₀H₂₁N₅O₄

Formula Weight : 395.40

Chemical Name : Benzamide, N-[1-[2-(4-morpholinyl)ethyl]-1H-benzimidazol-2-yl]-3-nitro-



Description : IRAK-1-4 Inhibitor I is a potent, dual inhibitor of IRAK4 and IRAK1 with IC₅₀ of 0.2 uM and 0.3 uM, respectively; displays IC₅₀ of >10 uM against a panel of 27 other kinases, including the most closely homologous (outside of the IRAK family) Lck and pp60SRC; eliminates the LPS-induced increases in Bcl10, NF-κB, and IL-8 in human intestinal epithelial cells.

Pathway : Immunology/Inflammation

Target : IRAK

Receptor : IRAK-1;IRAK-4

Solubility : 10 mM in DMSO

SMILES : O=C(NC1=NC2=CC=CC=C2N1CCN3CCOCC3)C4=CC=CC([N+])([O-])=O=C4

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Powers JP, et al. Bioorg Med Chem Lett. 2006 Jun 1;16(11):2842-5. 2. Bhattacharyya S, et al. Am J Physiol Gastrointest Liver Physiol. 2007 Aug;293(2):G429-37.