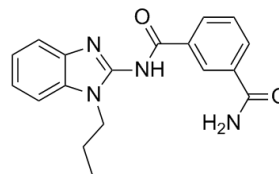


Product Name : Takinib
Synonyms : Takinib; EDHS-206; EDHS 206; EDHS206
Cat No. : M10414
CAS Number : 1111556-37-6
Molecular Formula : C₁₈H₁₈N₄O₂
Formula Weight : 322.37
Chemical Name : 1,3-Benzenedicarboxamide, N1-(1-propyl-1H-benzimidazol-2-yl)-



Description : Takinib is a potent, selective TAK1 inhibitor with IC₅₀ of 9.5 nM, selectively induces apoptosis following TNF-α stimulation; weakly inhibits IRAK4, IRAK1, GCK, CLK2, and MINK1 with IC₅₀ of 120-430 nM against the MRC Dundee kinase panel, does not inhibit any of the MAP2Ks or MAP3Ks family members; inhibits phosphorylation of IKK, MAPK 8/9, and c-Jun, induces apoptosis in RA fibroblast-like synoviocytes and reduces IL-6 secretion, induces TNF-α-dependent cell death in rheumatoid arthritis and breast cancer cells.

Pathway : NF-κB

Target : TAK1

Receptor : TAK1

Solubility : DMSO: 6.8 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)

SMILES : O=C(C1=CC=CC(C(=NC2=NC3=CC=CC=C3N2CCC)=O)=C1)N

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Totzke J, et al. Cell Chem Biol. 2017 Aug 17;24(8):1029-1039.e7.