For Research Use Only

JNK-IN-8

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Catalog Number: CM04926

产品信息

Catalog Number:
CM04926

CAS号:
1410880-22-6

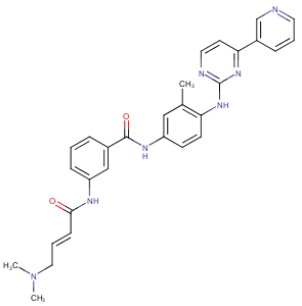
分子式:
$C_{29}H_{29}N_7O_2$

主要靶点:
c-Kit|JNK

主要通路:
MAPK信号通路|蛋白酪氨酸激酶

分子量:
507.59

溶解度:
Ethanol:<1 mg/mL,H2O:<1 mg/mL,DMSO:93 mg/mL (183.2 mM)



靶点活性

JNK2:18.7 nM|JNK1:4.7 nM|JNK:1 nM

体内活性

JNK-IN-8（10 mM）对IL-1R细胞中IL-1β刺激的c-Jun磷酸化有抑制作用。与伊马替尼相比,JNK-IN-8有明显的1,4-双苯胺和1,3-氨基苯甲酸结构区域选择性,且以N,N-二甲基丁烯乙酰胺共价结合Cys154靶点。JNK-IN-8抑制HeLa（EC50：486 nM）和A375（EC50：338 nM）细胞中c-Jun的磷酸化。JNK-IN-8与PIK3C3,IRAK1,PIP5K3和PIP4K2C结合可使选择性和消除率显著提高。JNK-IN-8经Cys116抑制JNK2。

细胞实验

JNK-IN-8 is dissolved in DMSO and stored, and then diluted with appropriate media before use[1]. HEK-293 cells stably expressing Interleukin Receptor 1 (HEK293-IL1R) are cultured in Dulbecco's Modified Eagle's medium (DMEM) supplemented with 10% FBS, 2 mM glutamine and 1×antimycotic/antibiotic solution. Cells are serum starved for 18 h before incubation with DMSO or JNK-IN-8, stimulated with 2 μM Anisomycin for 1h and lysates are clarified by centrifugation for 10 min at 16000 g and 4°C[1].

描述

JNK-IN-8 is an irreversible JNK1/2/4 inhibitor (IC50: 4.7/18.7/1 nM). The selectivity is higher 10-fold than MNK2, Fms and no inhibition of Met, c-Kit, PDGFRβ in A375 cell line.

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years