

Catalog Number: CM04902

产品信息

Catalog Number:
CM04902

CAS号:
1640292-55-2

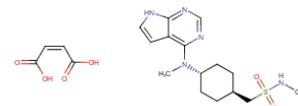
分子式:
 $C_{15}H_{23}N_5O_2S \cdot C_4H_4O_4$

主要靶点:
Tyrosine Kinases|JAK

主要通路:
JAK/STAT信号通路|干细胞|表观遗传|蛋白酪氨酸激酶|血管生成

分子量:
453.51

溶解度:
DMSO:83 mg/mL (183 mM),Ethanol:83 mg/mL (183 mM),H₂O:15 mg/mL (33.1 mM)



靶点活性

JAK1-dependent:36 to 249 nM|JAK family members:10 to 99 nM

体外活性

PF-03394197 inhibits JAK family members by 50% at concentrations ranging from 10 to 99 nM and does not inhibit a panel of 38 non-JAK kinases. PF-03394197 is most potent at inhibiting JAK1. PF-03394197 also inhibits the function of JAK1-dependent cytokines involved in allergy and inflammation as well as pruritus. PF-03394197 has minimal effects on cytokines which does not activate the JAK1 enzyme in cells[1].

体内活性

PF-03394197 administered orally at a dose of 0.4–0.6 mg/kg twice daily is safe and efficacious in controlling the pruritus associated with allergic dermatitis. PF-03394197 provides itch relief within 24 h that persists through the treatment period, with over 70% of the treated dogs achieving a >50% reduction in pruritus by day 7[2].

描述

Oclacitinib is a novel inhibitor of JAK family members with IC₅₀ ranging from 10 to 99 nM and JAK1-dependent cytokines with IC₅₀ ranging from 36 to 249 nM, which did not inhibit a panel of 38 non-JAK kinases.

储存

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