
Product Data Sheet

Product Name: PF 06651600 malonate

Cat. No.: GC50480

Chemical Properties

Cas. No. 2140301-97-7

SMILES C[C@H]1CC[C@@H](NC2=C3C=CNC3=NC=N2)CN1C(C=C)=O.OC(CC(O)=O)=O

Formula $C_{15}H_{19}N_5O \cdot C_3H_4O_4$ M.Wt 389.41

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure

Background

Potent and selective JAK3 inhibitor (IC₅₀ = 33.1 μM). Exhibits no significant activity against a panel of other kinases including JAK1, JAK2 and TYK2. Inhibits phosphorylation of STAT5, induced by IL-2, IL-4, IL-7 and IL-15. Suppresses Th1 and Th17 T-cell differentiation and function in vitro. Reduces paw swelling in a rat model of arthritis and reduces disease severity in a rat EAE model.

Thorarensen et al (2017) Design of a Janus Kinase 3 (JAK3) specific inhibitor 1-((2S,5R)-5-((7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino)-2-methylpiperidin-1-yl)prop-2-en-1-one (PF-06651600) allowing for the interrogation of JAK3 signaling in humans. J. Med. Chem. 60 1971 PMID:28139931 | Telliez et al (2016) Discovery of a JAK3-selective inhibitor: functional differentiation of JAK3-selective inhibition over pan-JAK or JAK1-selective inhibition. ACS Chem. Biol. 11 3442 PMID:27791347

Caution: Product has not been fully validated for medical applications. For research use only.

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