Itacitinib adipate

Cat. No.: HY-16997A

CAS No.: 1334302-63-4

Molecular Formula: $C_{32}H_{33}F_4N_9O_5$

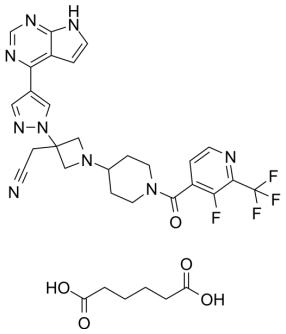
Molecular Weight: 699.66

Target: JAK

Pathway: Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt

Storage: 4°C, stored under nitrogen

* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 137.5 mg/mL (196.52 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.4293 mL	7.1463 mL	14.2927 mL
5 mM	0.2859 mL	1.4293 mL	2.8585 mL
10 mM	0.1429 mL	0.7146 mL	1.4293 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (3.57 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (3.57 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (3.57 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Itacitinib adipate is an orally bioavailable and selective JAK1 inhibitor which has been tested for efficacy and safety in a phase II trial in myelofibrosis.

IC_{50} & Target

JAK1

CUSTOMER VALIDATION

- Leukemia. 2019 Aug;33(8):1964-1977.
- EMBO Rep. 2019 Jun;20(6):e47202.
- EMBO Rep. 2019 Jun;20(6):e47202.
- J Autoimmun. 2019 May;99:39-47.
- JCI Insight. 2021 Apr 8;6(7):142205.

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REFERENCES

[1]. Griesshammer M, et al. The BCR-ABL1-negative myeloproliferative neoplasms: a review of JAK inhibitors in the therapeutic armamentarium. Expert Opin Pharmacother. 2017 Dec;18(18):1929-1938.

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

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