



LKT Laboratories, Inc.

**AZD-1480**

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## Product Information

Product ID A9812

CAS No. 935666-88-9

### Chemical Name

Synonym AZD-1480

Formula  $C_{14}H_{14}ClFN_8$

Formula Wt. 348.77

### Melting Point

Purity  $\geq 99\%$

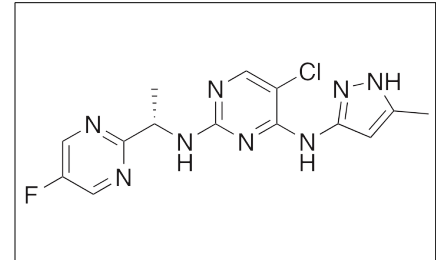
Solubility DMSO 69 mg/mL warmed  
(197.83 mM)  
Water Insoluble  
Ethanol Insoluble

Store Temp  $-20^{\circ}C$

Ship Temp Ambient

### Description

AZD-1480 is an inhibitor of JAK1/2 that exhibits antiviral, immunosuppressive, anti-metastatic, and anticancer chemotherapeutic activities. In vitro, AZD-1480 inhibits replication of hepatitis A virus. In animal models of experimental autoimmune encephalitis (EAE), AZD-1480 decreases disease severity by suppressing expression of inflammatory cytokines and minimizing antigen presentation and T cell expansion. In animal models of various cancers, this compound inhibits tumor growth. AZD-1480 is currently in clinical trials as a potential cancer treatment. In cellular and animal models of prostate cancer, this compound inhibits metastasis.



**Bulk quantities available upon request**

Product ID	Size
A9812	1 mg
A9812	5 mg
A9812	10 mg

**References** Jiang X, Kanda T, Nakamoto S, et al. The JAK2 inhibitor AZD1480 inhibits hepatitis A virus replication in Huh7 cells. *Biochem Biophys Res Commun.* 2015 Feb 19. [Epub ahead of print]. PMID: 25704089.

Gritsina G, Xiao F, O'Brien SW, et al. Targeted blockade of JAK/STAT3 signaling inhibits ovarian carcinoma growth. *Mol Cancer Ther.* 2015 Feb 2. [Epub ahead of print]. PMID: 25646015.

Suryani S, Bracken LS, Harvey RC, et al. Evaluation of the In Vitro and In Vivo Efficacy of the JAK Inhibitor AZD1480 against JAK-Mutated Acute Lymphoblastic Leukemia. *Mol Cancer Ther.* 2015 Feb;14(2):364-74. PMID: 25504635.

Houghton PJ, Kurmasheva RT, Lyalin D, et al. Initial solid tumor testing (stage 1) of AZD1480, an inhibitor of Janus kinases 1 and 2 by the pediatric preclinical testing program. *Pediatr Blood Cancer.* 2014 Nov;61(11):1972-9. PMID: 25131802.

Gu L, Talati P, Vogiatzi P, et al. Pharmacologic suppression of JAK1/2 by JAK1/2 inhibitor AZD1480 potently inhibits IL-6-induced experimental prostate cancer metastases formation. *Mol Cancer Ther.* 2014 May;13(5):1246-58. PMID: 24577942.

Liu Y, Holdbrooks AT, De Sarno P, et al. Therapeutic efficacy of suppressing the Jak/STAT pathway in multiple models of experimental autoimmune encephalomyelitis. *J Immunol.* 2014 Jan 1;192(1):59-72. PMID: 24323580.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.