



LKT Laboratories, Inc.

Asciminib

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## Product Information

Product ID A724091

CAS No. 1492952-76-7

### Chemical Name

Synonym ABL001; ABL-001; Asciminib free base

Formula  $C_{20}H_{18}ClF_2N_5O_3$

Formula Wt. 449.84

Melting Point

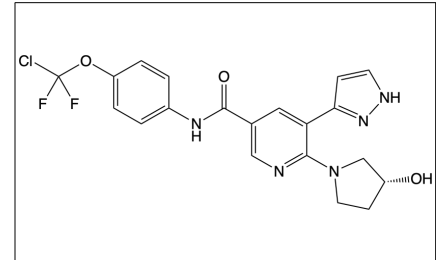
Purity  $\geq 98\%$

Solubility

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

Ship Temp Ambient

**Description** Asciminib is an orally bioavailable, allosteric Bcr-Abl1 tyrosine kinase inhibitor, with antineoplastic activity. Upon administration, asciminib targets and binds to the myristoyl pocket of the Bcr-Abl1 fusion protein at a location that is distinct from the ATP-binding domain, thereby inhibiting the activity of both wild-type Bcr-Abl and certain mutation forms, including the T315I mutation. This binding results in the inhibition of Bcr-Abl1-mediated proliferation and enhanced apoptosis of Philadelphia chromosome-positive (Ph+) hematological malignancies. The Bcr-Abl1 fusion protein tyrosine kinase is an abnormal enzyme produced by leukemia cells that contain the Philadelphia chromosome.  
NCI Thesaurus (NCIt)



**Bulk quantities available upon request**

Product ID	Size
A724091	1 mg
A724091	5 mg
A724091	25 mg

**References** Gleixner K, Filik Y, Berger D, et al. Asciminib and ponatinib exert synergistic anti-neoplastic effects on CML cells expressing BCR-ABL1<sup>T315I</sup>-compound mutations. *Am J Cancer Res.* 2021 Sep 15;11(9):4470-4484. PMID: 34659899

Rea D, Hughes T. Development of asciminib, a novel allosteric inhibitor of BCR-ABL1. *Crit Rev Oncol Hematol.* 2022 Mar;171:103580. PMID: 35021069

Uruganti B, Lindahl E, Yang J, et al. Allosteric enhancement of the BCR-Abl1 kinase inhibition activity of nilotinib by cobinding of asciminib. *J Biol Chem.* 2022 Aug;298(8):102238. PMID: 35809644

Lin H, Saputra F, Audira G, et al. Investigating potential cardiovascular toxicity of two anti-leukemia drugs of asciminib and ponatinib in zebrafish embryos. *Int J Mol Sci.* 2022 Oct 3;23(19):11711. PMID: 36233014

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