



LKT Laboratories, Inc.

LDK378

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## Product Information

Product ID L1340

CAS No. 1032900-25-6

### Chemical Name

Synonym LDK-378, Ceritinib

Formula  $C_{28}H_{36}ClN_5O_3S$

Formula Wt. 558.13

### Melting Point

Purity  $\geq 99\%$

Solubility DMSO 20 mg/mL warmed  
(35.83 mM)

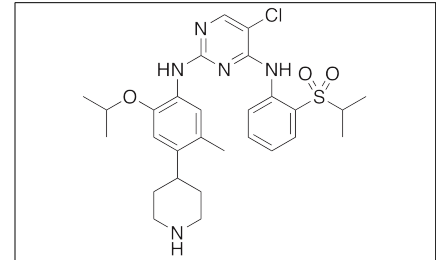
Ethanol 3 mg/mL (5.37  
mM)

Water Insoluble

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

Ship Temp Ambient

**Description** LDK-378 is an anaplastic lymphoma kinase (ALK) inhibitor that displays anticancer chemotherapeutic activity. LDK-378 is used to treat ALK-positive non-small cell lung cancer (NSCLC), particularly in subjects experiencing resistance to crizotinib. This compound also inhibits IGF-1R.



**Bulk quantities available upon request**

Product ID	Size
L1340	1 mg
L1340	5 mg
L1340	25 mg

**References** Iams WT, Lovly CM. Anaplastic Lymphoma Kinase as a Therapeutic Target in Non-Small Cell Lung Cancer. *Cancer J.* 2015 Sep-Oct;21(5):378-82. PMID: 26389762.

Nishio M, Murakami H, Horiike A, et al. Phase I Study of Ceritinib (LDK378) in Japanese Patients with Advanced, Anaplastic Lymphoma Kinase-Rearranged Non-Small-Cell Lung Cancer or Other Tumors. *J Thorac Oncol.* 2015 Jul;10(7):1058-66. PMID: 26010125.

Marsilje TH, Pei W, Chen B, et al. Synthesis, structure-activity relationships, and in vivo efficacy of the novel potent and selective anaplastic lymphoma kinase (ALK) inhibitor 5-chloro-N2-(2-isopropoxy-5-methyl-4-(piperidin-4-yl)phenyl)-N4-(2-(isopropylsulfonyl)phenyl)pyrimidine-2,4-diamine (LDK378) currently in phase 1 and phase 2 clinical trials. *J Med Chem.* 2013 Jul 25;56(14):5675-90. PMID: 23742252.

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