



LKT Laboratories, Inc.

## Quizartinib

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### Product Information

Product ID Q8139

CAS No. 950769-58-1

**Chemical Name**

Synonym AC220, AC-220

Formula  $C_{29}H_{32}N_6O_4S$

Formula Wt. 560.67

Melting Point

Purity  $\geq 98\%$

Solubility

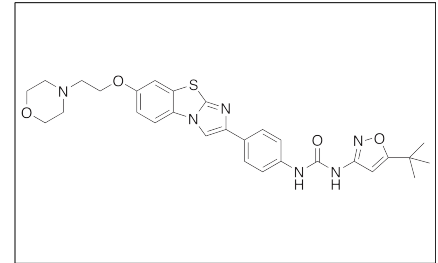
Store Temp  $-20^{\circ}C$

Ship Temp Ambient

**Description**

Quizartinib is an anticancer chemotherapeutic compound that inhibits FMS-like tyrosine kinase 3 (FLT3), c-Kit, and PDGFR. Quizartinib is clinically used to treat acute myelogenous leukemia. In cellular models, quizartinib induces apoptosis and inhibits proliferation. This compound also inhibits ATP-binding cassette ABCG2, also known as breast cancer resistance protein.

Quizartinib is supplied as a crystalline solid. Quizartinib is soluble in DMSO to 33 mg/mL, in water to  $<0.3$  mg/ml, and in ethanol to  $<0.5$  mg/ml. If Quizartinib needs to be stored long term, we recommend storing the solid Quizartinib and not storing the Quizartinib in solution due to potential loss of stability.



**Bulk quantities available upon request**

Product ID	Size
Q8139	5 mg
Q8139	10 mg
Q8139	25 mg

**References** Ostronoff F, Estey E. The role of quizartinib in the treatment of acute myeloid leukemia. *Expert Opin Investig Drugs*. 2013 Sep 26. [Epub ahead of print]. PMID: 24070241.

Bhullar J, Natarajan K, Shukla S, et al. The FLT3 inhibitor quizartinib inhibits ABCG2 at pharmacologically relevant concentrations, with implications for both chemosensitization and adverse drug interactions. *PLoS One*. 2013;8(8):e71266. PMID: 23967177.

Kampa-Schittenhelm KM, Heinrich MC, Akmut F, et al. Quizartinib (AC220) is a potent second generation class III tyrosine kinase inhibitor that displays a distinct inhibition profile against mutant-FLT3, -PDGFRA and -KIT isoforms. *Mol Cancer*. 2013 Mar 7;12:19. PMID: 23497317.

Zarrinkar PP, Gunawardane RN, Cramer MD, et al. AC220 is a uniquely potent and selective inhibitor of FLT3 for the treatment of acute myeloid leukemia (AML). *Blood*. 2009 Oct 1;114(14):2984-92. PMID: 19654408.

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