



# LKT Laboratories, Inc.

## BLZ-945 Hydrochloride

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### Product Information

**Product ID** B470961

**CAS No.** 2222138-31-8

**Chemical Name** 4-(((2-(((1R,2R)-2-Hydroxycyclohexyl)amino)benzo[d]thiazol-6-yl)oxy)-N-methylpicolinamide hydrochloride

**Synonym** BLZ945 Hydrochloride; Sotuletinib Hydrochloride

**Formula** C<sub>20</sub>H<sub>23</sub>ClN<sub>4</sub>O<sub>3</sub>S

**Formula Wt.** 434.9

**Melting Point**

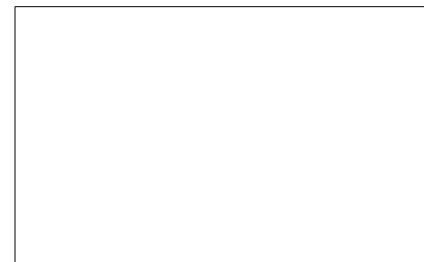
**Purity** ≥98%

**Solubility**

**Store Temp** -20°C

**Ship Temp** Ambient

**Description** BLZ-945 hydrochloride is the hydrochloride salt of BLZ-945 (Sotuletinib), a potent, selective inhibitor of the CSF1R (Colony Stimulating Factor 1 Receptor) tyrosine kinase. The HCl salt formulation provides improved aqueous solubility compared to the free base, facilitating in vitro and in vivo experimental use. BLZ-945 HCl depletes CSF1R-dependent macrophage and microglial populations and is used to investigate the roles of these cells in tumor microenvironments, neurodegeneration, and innate immune signaling.



### Pricing and Availability

*Bulk quantities available upon request*

| Product ID | Size   | List Price |
|------------|--------|------------|
| B470961    | 5 mg   | \$95.00    |
| B470961    | 25 mg  | \$275.00   |
| B470961    | 100 mg | \$750.00   |

- References**
1. Pyonteck SM, Akkari L, Schuhmacher AJ, et al. CSF-1R inhibition alters macrophage polarization and blocks glioma progression. *Nat Med.* 2013;19(10):1264-72. PMID: 24056773.
  2. Ries CH, Cannarile MA, Hoves S, et al. Targeting tumor-associated macrophages with anti-CSF-1R antibody reveals a strategy for cancer therapy. *Cancer Cell.* 2014;25(6):846-59. PMID: 24807024.
  3. Quail DF, Bowman RL, Akkari L, et al. The tumor microenvironment underlies acquired resistance to CSF-1R inhibition in gliomas. *Science.* 2016;352(6288):aad3018. PMID: 27124453.
  4. Stanley ER, Chitu V. CSF-1 receptor signaling in myeloid cells. *Cold Spring Harb Perspect Biol.* 2014;6(6):a021857. PMID: 24890514.

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