



LKT Laboratories, Inc.

**AZD-5363**

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## Product Information

**Product ID** A9601

**CAS No.** 1143532-39-1

**Chemical Name** 4-amino-N-[(1S)-1-(4-chlorophenyl)-3-hydroxypropyl]-1-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)piperidine-4-carboxamide

**Synonym** AZD5363

**Formula** C<sub>21</sub>H<sub>25</sub>ClN<sub>6</sub>O<sub>2</sub>

**Formula Wt.** 428.92

**Melting Point**

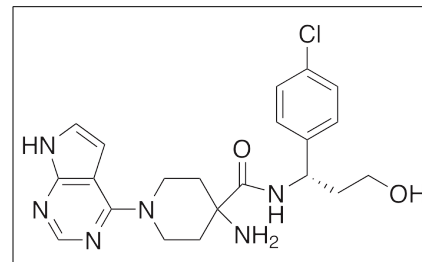
**Purity** ≥99%, ≥99%ee

**Solubility** In DMSO(86mg/ml), water with 2 eq. of acid, insoluble on ethanol

**Store Temp** -20°C

**Ship Temp** Ambient

**Description** AZD-5363 is an oral pan-AKT inhibitor that causes hyperphosphorylation of AKT, locking it in a catalytically inactive state, unable to phosphorylate downstream signaling substrates such as PRAS40 and GSK-3. This compound displays anticancer chemotherapeutic activity, inhibiting proliferation and inducing tumor regression in in vitro and in vivo models of HER2+ breast cancer and prostate cancer. AZD-5363 may also exhibit inhibitory activity against Rho-associated protein kinase (ROCK), p70S6K, PKA, MKK1, MSK1, MSK2, PKC, PKG, PRKX, and RSK2/3.



## Pricing and Availability

**Bulk quantities available upon request**

| Product ID | Size  | List Price |
|------------|-------|------------|
| A9601      | 1 mg  | \$83.00    |
| A9601      | 5 mg  | \$143.20   |
| A9601      | 25 mg | \$393.60   |

**References** Addie M, Ballard P, Buttar D, et al. Discovery of 4-amino-N-[(1S)-1-(4-chlorophenyl)-3-hydroxypropyl]-1-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)piperidine-4-carboxamide (AZD5363), an orally bioavailable, potent inhibitor of Akt kinases. J Med Chem. 2013 Mar 14;56(5):2059-73. PMID: 23394218.

Lamoureux F, Thomas C, Crafter C, et al. Blocked autophagy using lysosomotropic agents sensitizes resistant prostate tumor cells to the novel Akt inhibitor AZD5363. Clin Cancer Res. 2013 Feb 15;19(4):833-44. PMID: 23258740.

Davies BR, Greenwood H, Dudley P, et al. Preclinical pharmacology of AZD5363, an inhibitor of AKT: pharmacodynamics, antitumor activity, and correlation of monotherapy activity with genetic background. Mol Cancer Ther. 2012 Apr;11(4):873-87. PMID: 22294718.

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