LKT Laboratories, Inc.

AG-1478

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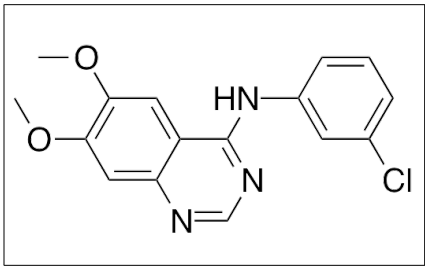
Product Information

Product ID A2500
CAS No. 153436-53-4
Chemical Name N-(3-Chlorophenyl)-6,7-dimethoxyquinazolin-4-amine

Synonym Tyrphostin AG1478, NSC693255

Formula $C_{16}H_{14}ClN_3O_2$
Formula Wt. 315.76
Melting Point
Purity ≥98%
Solubility



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
A2500	5 mg	$45.00
A2500	25 mg	$98.00

Store Temp -20°C
Ship Temp Ambient
Description AG-1478 is an inhibitor of EGFR that exhibits anticancer, anti-inflammatory, and anti-asthma activities. AG-1478 inhibits proliferation of hepatocellular carcinoma cells but potential use is limited by poor solubility. In bronchial epithelial cells, this compound decreases goblet cell number and mucus hypersecretion. AG-1478 also suppresses secretion of MUC5AC, VEGF, and IL -8 in airway epithelial cells, potentially preventing airway inflammation and remodeling.

References

Parker JC, Douglas I, Bell J, et al. Epidermal Growth Factor Removal or Tyrphostin AG1478 Treatment Reduces Goblet Cells & Mucus Secretion of Epithelial Cells from Asthmatic Children Using the Air-Liquid Interface Model. PLoS One. 2015 Jun 9;10(6):e0129546. PMID: 26057128.

Bondì ML, Azzolina A, Craparo EF, et al. Entrapment of an EGFR inhibitor into nanostructured lipid carriers (NLC) improves its antitumor activity against human hepatocarcinoma cells. J Nanobiotechnology. 2014 May 12;12:21. PMID: 24886097.

Shimizu S, Kouzaki H, Ogawa T, et al. Eosinophil-epithelial cell interactions stimulate the production of MUC5AC mucin and profibrotic cytokines involved in airway tissue remodeling. Am J Rhinol Allergy. 2014 Mar-Apr;28(2):103-9. PMID: 24717945.