



LKT Laboratories, Inc.

BIX-01294

Phone: 888-558-5227

651-644-8424

Fax: 888-558-7329

Email: getinfo@lktlabs.com

Web: lktlabs.com

Product Information

Product ID B349921

CAS No. 935693-62-2

Chemical Name N-(1-benzylpiperidin-4-yl)-6,7-dimethoxy-2-(4-methyl-1,4-diazepan-1-yl)quinazolin-4-amine

Synonym BIX01294; ChEMBL569864; Histone Lysine Methyltransferase Inhibitor, HMTase Inhibitor

Formula C₂₈H₃₈N₆O₂

Formula Wt. 490.65

Melting Point

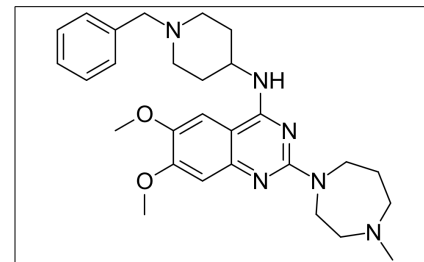
Purity ≥99%

Solubility

Store Temp 4°C

Ship Temp Ambient

Description BIX-01294 is a specific inhibitor of histone methyltransferase G9a. When used to treat pulmonary artery smooth muscle cells, BIX-01294 reduces cell proliferation, migration, and contractility, inducing cell cycle arrest in G(1) phase. A study of cloned mouse preimplantation embryos found that treatment with BIX-01294 corrected abnormal epigenetic modifications. Studies with human glioma stem-like cells demonstrated that BIX-01294 treatment results in sensitization of the cells to treatment with temozolomide, which then induces apoptosis. BIX-01294 has also been found to be a potent modulator of stem cell differentiation.



Bulk quantities available upon request

Product ID	Size
------------	------

B349921	5 mg
---------	------

B349921	25 mg
---------	-------

B349921	100 mg
---------	--------

References Yang Q, Lu Z, Singh D, et al. BIX-01294 treatment blocks cell proliferation, migration, and contractility in ovine foetal pulmonary arterial smooth muscle cells. *Cell Prolif.* 2012 Aug;45(4):335-344. PMID: 22691107.

Huang Y, Jiang X, Yu M, et al. Beneficial effects of diazepam-quinazolin-amine derivative (BIX-01294) on preimplantation development and molecular characteristics of cloned mouse embryos. *Reprod Fertil Dev.* 2017 Jun;29(6):1260-1269. PMID: 27477633.

Ciechomska IA, Marciniak MP, Jackl J, et al. Pre-treatment or post-treatment of human glioma cells with BIX01294, the inhibitor of histone methyltransferase G9a, sensitizes cells to temozolomide. *Front Pharmacol.* 2018 Nov 2;9:1271. PMID: 30450051.

Ciechomska IA, Przanowski P, Jackl J, et al. BIX01294, an inhibitor of histone methyltransferase, induces autophagy-dependent differentiation of glioma stem-like cells. *Sci Rep.* 2016 Dec 9;6:38723. PMID: 27934912.

Guo AS, Huang YQ, Ma XD, et al. Mechanism of G9a inhibitor BIX-01294 acting on U251 glioma cells. *Mol Med Rep.* 2016 Nov;14(5):4613-4621. PMID: 27748874.

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