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DATASHEET

BIX 01294

Product overview

Name	BIX 01294
Cat No	HB1413
Alternative names	BIX-01294
Biological action	Inhibitor
Purity	>98%
Description	Potent, selective GLP / G9a HMTase inhibitor. Potentiates iPSC induction.

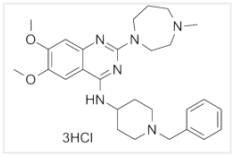
Biological Data

Biological description	Potent and selective G9a-like protein (GLP) and G9a histone lysine methyltransferase (HMTase) inhibitor (IC_{50} values are 0.7 and 1.9 µM respectively). Shows antimalarial and anti-cancer actions. Also potentiates iPSC induction.

Solubility & Handling

Storage instructions	room temperature (desiccate)
Solubility overview	Soluble in water (100mM) or DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	2-(Hexahydro-4-methyl-1*H*-1,4-diazep in-1-yl)-6,7-dimethoxy-*N*-[1-(phenylmethyl)-4-piper idinyl]-4-quinazolinamine trihydrochloride
Molecular Weight	600.02
Chemical structure	
Molecular Formula	$C_{28}H_{38}N_6O_2.3HCl$
CAS Number	1392399-03-9
PubChem identifier	46945860
SMILES	CN(CCC3)CCN3C2=NC1=CC(OC)=C(OC)C=C1C(NC4CCN(CC5=CC=CC=C5)CC4)=N2.Cl.Cl.Cl
InChiKey	FMURUEPQXKJIPS-UHFFFAOYSA-N

References

Reversal of H3K9me2 by a small-molecule inhibitor for the G9a histone methyltransferase.

Kubicek S *et al* (2007) Mol Cell 25(3)
PubMedID 17289593

Small-molecule histone methyltransferase inhibitors display rapid antimalarial activity against all blood stage forms in

Plasmodium falciparum.

Malmquist NA *et al* (2012) Proc Natl Acad Sci U S A 109(41)
PubMedID 23011794

Structural basis for G9a-like protein lysine methyltransferase inhibition by BIX-01294.

Chang Y *et al* (2009) Nat Struct Mol Biol 16(3)
PubMedID 19219047

Euchromatic histone methyltransferase 2 inhibitor, BIX-01294, sensitizes human promyelocytic leukemia HL-60 and NB4 cells to growth inhibition and differentiation.

Savickiene J *et al* (2014) Leuk Res 38(7)
PubMedID 24832370