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DATASHEET

BIO

Product overview

Name	BIO
Cat No	HB1259
Alternative names	6-BIO; 6BIO
Biological action	Inhibitor
Purity	>98%
Description	Potent GSK-3 α / β inhibitor. Maintains ESC self-renewal and pluripotency.

Images



Biological Data

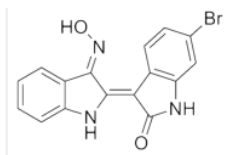
Biological description	Potent GSK-3 α / β inhibitor ($IC_{50} = 5$ nM). Exhibits reduced activity at CDK1/cyclin B, CDK2/cyclinA, CDK4/cyclin D1, CDK5/p35, MAPKK and PKC-subunit α (IC_{50} values are 0.32, 0.30, 10, 0.08, 10 and 12 μ M respectively). Induces β -catenin stabilisation and protects hippocampal neurons from A β oligomer damage. Also inhibits Tyr276/216 phosphorylation and reduces β -catenin phosphorylation. Cell permeable. Maintains embryonic stem cell self-renewal and pluripotency and displays proliferation enhancing properties.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (10mM) or ethanol (10mM)
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'Z,3'E)-6-Bromoindirubin-3'-oxime
Molecular Weight	356.17
Chemical structure	



Molecular Formula
CAS Number
PubChem identifier
SMILES
InChi

C₁₆H₁₀BrN₃O₂
667463-62-9
448949
O/N=C(C1=CC=CC=C1N2)/C2=C3/C(NC4=C3C=CC(Br)=C4)=O
InChI=1S/C16H10BrN3O2/c17-8-5-6-9-12(7-8)19-16(21)13(9)15-14(20-22)10-3-1-2-4-11(10)18-15/h1-7,18-19,21H
WNWSUJQVZJJGLF-SQFISAMPSA-N
MFCD08705318
Red solid

References

Canonical Wnt signaling protects hippocampal neurons from A β oligomers: role of non-canonical Wnt-5a/Ca(2+) in mitochondrial dynamics.

Silva-Alvarez C *et al* (2013) Front Cell Neurosci 7

PubMedID [23805073](#)

GSK-3-selective inhibitors derived from Tyrian purple indirubins.

Meijer L *et al* (2003) Chem Biol 10(12)

PubMedID [14700633](#)

The GSK-3 inhibitor BIO promotes proliferation in mammalian cardiomyocytes.

Tseng AS *et al* (2006) Chem Biol 13(9)

PubMedID [16984885](#)
