Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

DATASHEET

DMH-1

Product overview

Name	DMH-1
Cat No	HB3110
Biological action	Inhibitor
Purity	>98%
Description	Selective ALK2 inhibitor. Promotes iPSC neurogenesis.

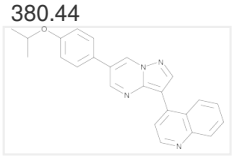
Biological Data

Biological description	Selective ALK2 inhibitor (IC_{50} = 108 nM). Blocks BMP signaling. Also promotes human induced pluripotent stem cell (iPSC) neurogenesis when used in combination with SB 431542. Shows antitumor activity.

Solubility & Handling

Solubility overview	Soluble in DMSO (20mM)
Storage instructions	+4°C
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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	4-[6-[4-(1-Methylethoxy)phenyl]pyra zolo[1,5-*a*]pyrimidin-3-yl]-quinoline
Molecular Weight	380.44
Chemical structure	
Molecular Formula	$C_{24}H_{20}N_4O$
CAS Number	1206711-16-1
PubChem identifier	50997747
SMILES	CC(C)OC(C=C3)=CC=C3C(C=N2)=CN1C2=C(C4=CC=NC5=C4C=CC=C5)C=N1
InChiKey	JMIFGARJSWXZSH-UHFFFAOYSA-N

References

DMH1, a novel BMP small molecule inhibitor, increases cardiomyocyte progenitors and promotes cardiac differentiation in mouse embryonic stem cells.

Ao et al (2012) PLoS One 7(7)

PubMedID 22848549

DMH1, a highly selective small molecule BMP inhibitor promotes neurogenesis of hiPSCs: comparison of PAX6 and SOX1 expression during neural induction.

Neely et al (2012) ACS Chem Neurosci 3(6)
PubMedID 22860217

DMH1, a small molecule inhibitor of BMP type i receptors, suppresses growth and invasion of lung cancer.

Hao et al (2014) PLoS One 9(6)
PubMedID 24603907