

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

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

customercare-usa@m2stage.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.

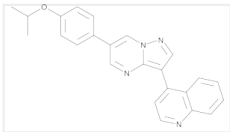
Biological Data

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

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (20mM)
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]pyrazolo[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	<chem>CC(C)OC(C=C3)=CC=C3C(C=N2)=CN1C2=C(C4=CC=NC5=C4C=CC=C5)C=N1</chem>
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](#)
