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## DATASHEET

DMH-1

### Product overview

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

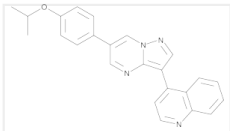
### Biological Data

<b>Biological description</b>	Selective ALK2 inhibitor (IC <sub>50</sub> = 108 nM). Blocks BMP signaling. Also promotes human induced pluripotent stem cell (iPSC) neurogenesis when used in combination with SB 431542. Shows antitumor activity.
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in DMSO (20mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	4-[6-[4-(1-Methylethoxy)phenyl]pyrazolo[1,5-a]pyrimidin-3-yl]-quinoline
<b>Molecular Weight</b>	380.44
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>24</sub> H <sub>20</sub> N <sub>4</sub> O
<b>CAS Number</b>	1206711-16-1
<b>PubChem identifier</b>	50997747
<b>SMILES</b>	CC(C)OC(C=C3)=CC=C3C(C=N2)=CN1C2=C(C4=CC=NC5=C4C=CC=C5)C=N1
<b>InChiKey</b>	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](https://pubmed.ncbi.nlm.nih.gov/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](#)

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