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

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

customercare-usa@hellobio.com

DATASHEET

PD 173074

Product overview

Name	PD 173074
Cat No	HB3584
Biological action	Inhibitor
Purity	>98%
Description	FGFR1/ FGFR3 inhibitor. Inhibits oligodendrocyte progenitor proliferation and differentiation.

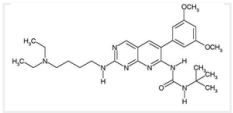
Biological Data

Biological description	FGFR1/ FGFR3 inhibitor (IC_{50} values are 22 and 5 nM respectively). Inhibits angiogenesis. Also inhibits oligodendrocyte progenitor proliferation and differentiation.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in DMSO (100mM) or ethanol (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	*N*-[2-[[4-(Diethylamino)butyl]amino] -6-(3,5-dimethoxyphenyl)pyrido[2,3-*d*]pyrimidin-7-yl]-*N'*-(1,1-dimethylethyl)urea
Molecular Weight	523.67
Chemical structure	
Molecular Formula	$C_{28}H_{41}N_7O_3$
CAS Number	219580-11-7
PubChem identifier	1401
SMILES	O=C(NC(C)(C)C)NC2=NC1=NC(NCCCCN(CC)CC)=NC=C1C=C2C3=CC(OC)=CC(OC)=C3
InChiKey	DXCUKNQANPLTEJ-UHFFFAOYSA-N

References

1-tert-butyl-3-[6-(3,5-dimethoxy-phenyl)-2-(4-diethylamino-butylamino)-pyrido[2,3-d]pyrimidin-7-yl]-urea (PD173074), a selective tyrosine kinase inhibitor of fibroblast growth factor receptor-3 (FGFR3), inhibits cell proliferation of bladder cancer carryi

Miyake et al (2010) J Pharmacol Exp Ther 332(3)
PubMedID 19955487

The FGFR1 inhibitor PD 173074 selectively and potently antagonizes FGF-2 neurotrophic and neurotropic effects.

Skaper et al (2000) J Neurochem 75(4)

PubMedID 10987832

The FGFR1 inhibitor PD173074 induces mesenchymal-epithelial transition through the transcription factor AP-1.

Nguyen et al (2013) Br J Cancer 109(8)

PubMedID 24045665