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DATASHEET

WHI-P 154

Product overview

Name	WHI-P 154
Cat No	HB1431
Alternative names	WHI-P154
Biological action	Inhibitor
Purity	>99%
Description	Non-selective JAK3 inhibitor and potent EGFR inhibitor. Induces neural progenitor cell differentiation.

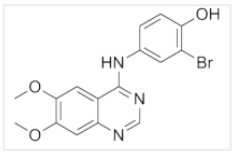
Biological Data

Biological description	Non-selective JAK3 inhibitor (IC_{50} = 1.8 µM), also acts as a potent EGFR kinase inhibitor (IC_{50} = 4 nM). Inhibits expression of iNOS and production of NO. Also induces neural progenitor cell differentiation. Shows apoptotic and anti-tumor actions.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (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	2-Bromo-4-[(6,7-dimethoxy-4-quinazolinyl)amino]phenol
Molecular Weight	376.2
Chemical structure	
Molecular Formula	$C_{16}H_{14}BrN_3O_3$
CAS Number	211555-04-3
PubChem identifier	3795
SMILES	OC(C=C3)=C(Br)C=C3NC2=NC=NC1=CC(OC)=C(OC)C=C12
InChiKey	CBIAKDAYHRWZCU-UHFFFAOYSA-N

References

The specificity of JAK3 kinase inhibitors.

Changelian PS *et al* (2008) Blood 111(4)
PubMedID 18094329

Janus kinase 3 inhibitor WHI-P154 in macrophages activated by bacterial endotoxin: differential effects on the expression of iNOS, COX-2 and TNF-alpha.

Sareila O *et al* (2008) Int Immunopharmacol 8(1)
PubMedID 18068105

4-(3'-Bromo-4'hydroxylphenyl)-amino-6,7-dimethoxyquinazoline: a novel quinazoline derivative with potent cytotoxic activity against human glioblastoma cells.

Narla RK *et al* (1998) Clin Cancer Res 4(6)
PubMedID 9626456