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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%

DescriptionNon-selective JAK3 inhibitor and potent EGFR inhibitor. Induces neural progenitor cell differentiation.

Biological Data

Biological description Non-selective JAK3 inhibitor (IC₅₀ = 1.8 μ M), also acts as a potent EGFR kinase inhibitor (IC₅₀ = 4.8 μ M).

nM). Inhibits expression of iNOS and production of NO. Also induces neural progenitor cell

differentiation. Shows apoptotic and anti-tumor actions.

Solubility & Handling

Solubility overview Soluble in DMSO (100mM) **Storage instructions** Room temperature

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 structure

Chemical name 2-Bromo-4-[(6,7-dimethoxy-4-quinazolinyl)amino]phenol Molecular Weight 376.2

HN Br

Molecular Formula $C_{16}H_{14}BrN_3O_3$ CAS Number211555-04-3PubChem identifier3795

 $\begin{array}{lll} \textbf{SMILES} & \text{OC(C=C3)=C(Br)C=C3NC2=NC=NC1=CC(OC)=C(OC)C=C12} \\ \textbf{InChiKey} & \text{CBIAKDAYHRWZCU-UHFFFAOYSA-N} \\ \end{array}$

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