

Product Data Sheet

Product Name: WHI-P154

Cat. No.: GC15589

Chemical Properties

Cas. No. 211555-04-3

Chemical Name 2-bromo-4-[(6,7-dimethoxyquinazolin-4-yl)amino]phenol

SMILES COC1=C(C=C2C(=C1)C(=NC=N2)NC3=CC(=C(C=C3)O)Br)OC

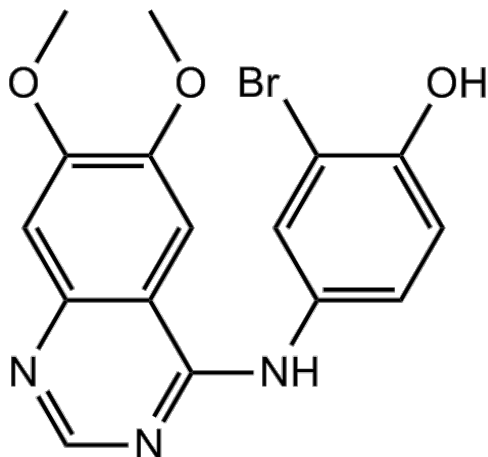
Formula $C_{16}H_{14}BrN_3O_3$ M.Wt 376.2

Solubility ≥ 125.6 mg/mL in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

WHI-P154 is an inhibitor of JAK3 with IC_{50} value of $1.8\mu\text{M}$ [1].

In vitro kinase assays show that WHI-P154 is not a specific inhibitor. Besides JAK3, it also inhibits many other kinases, including EGFR, ABL, LCK, SRC and VEGFR. WHI-P154 inhibits EGFR with IC_{50} value of 4nM . The specificity of WHI-P154 has not been shown in cell-based assays either [1].

Caution: Product has not been fully validated for medical applications. For research use only.

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WHI-P154 shows cytotoxicity against the U373 human glioblastoma cell line in vitro. This antitumor activity can be enhanced by conjugation to EGF. WHI-P154 also shows antitumor activity in a SCID mouse xenograft model of human glioblastoma [2].

References:

- [1] Changelian PS, Moshinsky D, Kuhn CF, Flanagan ME, Munchhof MJ, Harris TM, Whipple DA, Doty JL, Sun J, Kent CR, Magnuson KS, Perregaux DG, Sawyer PS, Kudlacz EM. The specificity of JAK3 kinase inhibitors. *Blood*. 2008 Feb 15;111(4):2155-7.
- [2] Narla RK, Liu XP, Myers DE, Uckun FM. 4-(3'-Bromo-4'-hydroxyphenyl)-amino-6,7-dimethoxyquinazoline: a novel quinazoline derivative with potent cytotoxic activity against human glioblastoma cells. *Clin Cancer Res*. 1998 Jun;4(6):1405-14.

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