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store at +4C
WHI-P131

#29832
5 mg

For Research Use Only. Not for Use in Diagnostic Procedures.

Background

WHI-P131 is a potent and selective inhibitor of Janus kinase 3 (Jak3) ($IC_{50} = 78 \mu M$) and glioblastoma cell adhesion and migration (1,2). This novel quinazoline derivative inhibits the enzymatic activity of constitutively active Jak3 without affecting Jak1, Jak2, or other family tyrosine kinases (1). WHI-P131 has also been shown to inhibit thrombin-induced tyrosine phosphorylation of Stat1 and Stat3. These properties make this compound useful when studying different diseases such as acute lymphoblastic leukemia, glioblastoma multiforme, and thromboembolism (1-3).

Molecular Formula

$C_{16}H_{15}N_3O_3 \cdot HCl$

Molecular Weight

333.8 g/mol

Purity

>98%

CAS

202475-60-3

Solubility

Soluble in DMSO at 50 mg/ml.

Storage

Store lyophilized at 4°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 2 months to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use

WHI-P131 is supplied as a lyophilized powder. For a 15 mM stock, reconstitute 5 mg of powder in 998 μl of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

Background References

1. Sudbeck, E.A. et al. (1999) *Clin Cancer Res* 5, 1569-82.
2. Narla, R.K. et al. (1998) *Clin Cancer Res* 4, 2463-71.
3. Tibbles, H.E. et al. (2001) *J Biol Chem* 276, 17815-22.

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