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Zuschläge

- Mindermengenzuschlag
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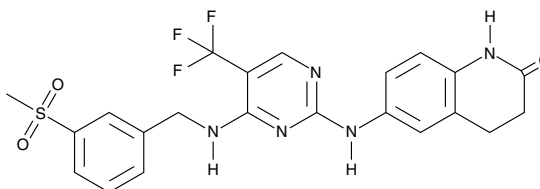
Product Information



PF-573228

Item No. 14924

CAS Registry No.: 869288-64-2
Formal Name: 3,4-dihydro-6-[[4-[[[3-(methylsulfonyl)phenyl]methyl]amino]-5-(trifluoromethyl)-2-pyrimidinyl]amino]-2(1H)-quinolinone
Synonyms: FAK Inhibitor II, Focal Adhesion Kinase Inhibitor II
MF: $C_{22}H_{20}F_3N_5O_3S$
FW: 491.5
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{\max} : 292 nm



Laboratory Procedures

For long term storage, we suggest that PF-573228 be stored as supplied at -20°C. It should be stable for at least two years.

PF-573228 is supplied as a crystalline solid. A stock solution may be made by dissolving the PF-573228 in the solvent of choice. PF-573228 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of PF-573228 in these solvents is approximately 15 and 20 mg/ml, respectively.

PF-573228 is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Focal adhesion kinases (FAKs) are non-receptor tyrosine kinases that play roles in regulating diverse processes, including cell adhesion, spreading, migration, proliferation, and apoptosis.¹ They are overexpressed in many types of cancer. PF-573228 inhibits FAK with IC_{50} values of 4 and 30-100 nM for a purified recombinant catalytic fragment of FAK and in cultured cells, respectively.² It is 50-250-fold selective for FAK over other protein kinases.² PF-573228 can inhibit chemotactic and haptotactic migration of cells as well as prevent focal adhesion turnover.²

References

1. Parsons, J.T., Slack-Davis, J., Tilghman, R., *et al.* Focal adhesion kinase: Targeting adhesion signaling pathways for therapeutic intervention. *Clin. Cancer Res.* **14**(3), 627-632 (2008).
2. Slack-Davis, J.K., Martin, K.H., Tilghman, R.W., *et al.* Cellular characterization of a novel focal adhesion kinase inhibitor. *J. Biol. Chem.* **282**(20), 14845-14852 (2007).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/14924

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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