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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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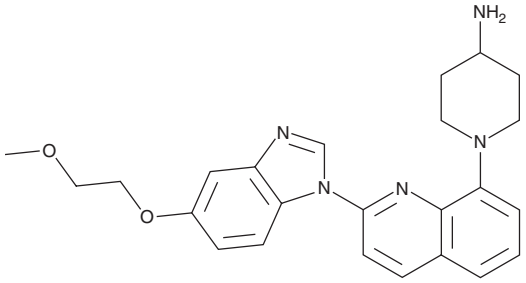
PRODUCT INFORMATION

CP-673,451

Item No. 19170

CAS Registry No.:	343787-29-1
Formal Name:	1-[2-[5-(2-methoxyethoxy)-1H-benzimidazol-1-yl]-8-quinolinyl]-4-piperidinamine
MF:	$C_{24}H_{27}N_5O_2$
FW:	417.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 274 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

CP-673,451 is supplied as a crystalline solid. A stock solution may be made by dissolving the CP-673,451 in the solvent of choice. CP-673,451 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide which should be purged with an inert gas. The solubility of CP-673,451 in these solvents is approximately 10, 2, and 5 mg/ml, respectively.

CP-673,451 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CP-673,451 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. CP-673,451 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

CP-673,451 is a selective inhibitor of the platelet-derived growth factor receptor platelet-derived growth factor receptor β (PDGFRβ) kinase with an IC_{50} value of 1 nM.[1] It also inhibits the PDGFRα kinase (IC_{50} = 10 nM), but exhibits greater than 450-fold selectivity over other angiogenic receptors such as VEGFR2, TIE-2, and FGFR2.[1] In several *in vivo* tumor models, CP-673,451 has antiangiogenic and antitumor activity.[1-3]

References

1. Roberts, W.G., Whalen, P.M., Soderstrom, E., *et al.* Antiangiogenic and antitumor activity of a selective PDGFR tyrosine kinase inhibitor, CP-673,451. *Cancer Res.* **65(3)**, 957-966 (2005).
2. Xi, Y., Chen, M., Liu, X., *et al.* CP-673451, a platelet-derived growth-factor receptor inhibitor, suppresses lung cancer cell proliferation and migration. *OncoTargets and Therapy* **2014:7**, 1215-1221 (2014).
3. Ehnman, M., Missiaglia, E., Folestad, E., *et al.* Distinct effects of ligand-induced PDGFRα and PDGFRβ signaling in the human rhabdomyosarcoma tumor cell and stroma cell compartments. *Cancer Res.* **73(7)**, 2139-2149 (2016).

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