



# SZABO SCANDIC

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## Produktinformation



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### 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<sub>24</sub>H<sub>27</sub>N<sub>5</sub>O<sub>2</sub>

**FW:** 417.5

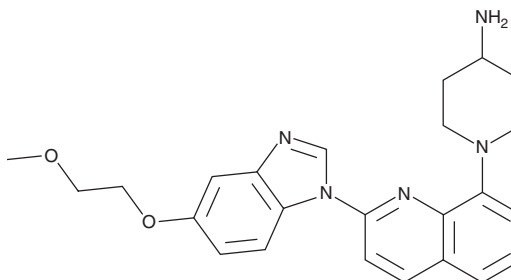
**Purity:** ≥98%

**UV/Vis.:** λ<sub>max</sub>: 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<sub>50</sub> value of 1 nM.<sup>1</sup> It also inhibits the PDGFRα kinase (IC<sub>50</sub> = 10 nM), but exhibits greater than 450-fold selectivity over other angiogenic receptors such as VEGFR2, TIE-2, and FGFR2.<sup>1</sup> In several *in vivo* tumor models, CP-673,451 has antiangiogenic and antitumor activity.<sup>1-3</sup>

## 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).

### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

### WARRANTY AND LIMITATION OF REMEDY

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