

Product Datasheet

Vorolanib

Catalog No. **BP-01825** · CAS **1013920-15-4** · Form **free base** · Physical state **solid** · Color **Light yellow to yellow** · Version **1.0**
· Revision **2026-09-08**

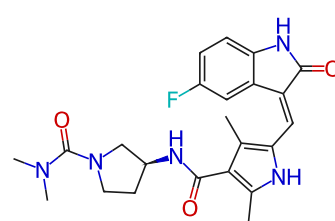
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Target VEGFR; PDGFR	Research area Cardiovascular Disease; Cancer
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Molecular formula **C₂₃H₂₆FN₅O₃**

Molecular weight **439.4826**

STRUCTURE



DESCRIPTION

Vorolanib (CM082) is an orally active, potent multikinase VEGFR/PDGFR inhibitor. Vorolanib is a potent ATP-binding cassette (ABC) transporter inhibitor. Vorolanib is an angiogenesis inhibitor and has antitumor activity combined with ZD1839.

BIOLOGICAL ACTIVITY

In Vitro

Vorolanib (CM082; 1-100 μM) can specifically enhance the sensitivity of a substrate chemotherapeutic agent in overexpressing ABCG2 cells, but not in overexpressing ABCB1 cells. Vorolanib (1.25, 2.5, 5.0, 20 μM) does not influence the expression of ABCG2 in mRNA or protein Levels.

? Vorolanib (0.001-10 μM) inhibits the growth of VEGF-stimulated HUVECs (IC₅₀=0.031 μM) and FBS-stimulated HUVEC growth (IC₅₀=29.9 μM).

? Vorolanib (0.01, 0.1, 1 μM) exhibits a concentration-dependent inhibition on VEGF-induced (40 ng/mL) phosphorylation of VEGFR2 and its downstream signaling molecules ERK1/2, AKT, and STAT3 in HUVECs. Vorolanib (0.1, 1 μM) inhibits FBS-stimulated tube formation and cell migration of HUVECs in a concentration-dependent manner.

SOLUBILITY

Soluble in DMSO : 27 mg/mL

REFERENCES

[1]. Lejia Xu, et al. CM082 Enhances the Efficacy of Chemotherapeutic Drugs by Inhibiting the Drug Efflux Function of ABCG2. Mol Ther Oncolytics. 2019 Dec 27;16:100-110.

[2]. Kun Zhang, et al. CM082, a novel angiogenesis inhibitor, enhances the antitumor activity of ZD1839 on epidermal growth factor receptor mutant non-small cell lung cancer in vitro and in vivo. Thorac Cancer. 2020 Jun;11(6):1566-1577.

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