Product Datasheet

AG1295

Catalog No. **BP-06352** · CAS **71897-07-9** · Form **free base** · Physical state **solid** · Color **Light yellow to yellow** · Version **1.0** · Revision **2026-11-13**

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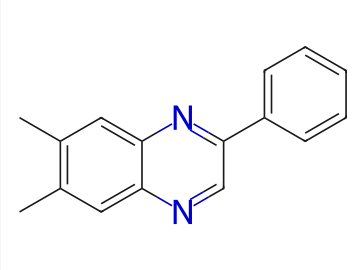
Target	Research area
PDGFR	**Cardiovascular Disease**

Molecular formula	$C_{16}H_{14}N_2$
Molecular weight	**234.2958**

STRUCTURE



DESCRIPTION

AG 1295 is a selective platelet-derived growth factor receptor (PDGFR) tyrosine-kinase inhibitor. AG1295 abolishes autophosphorylation of the PDGFR whereas not affects the autophosphorylation of the EGF receptor .

BIOLOGICAL ACTIVITY

In Vitro
AG 1295 inhibits PDGFR autophosphorylation with IC50s of 0.3-0.5 μM and 0.5-1 μM for membrane autophosphorylation assays and Swiss 3T3 cells, respectively[1].

AG1295 (10 μM, 100 μM) significantly inhibits rabbit conjunctival fibroblast cell growth stimulated by PDGF-AA or PDGF-BB in vitro[2].
In Vivo
AG-1295 reduces neointimal formation in aortic allograft vasculopathy by inhibition of PDGFR-beta-triggered tyrosine phosphorylation[3].

AG1295 (12 mg/kg; i.p.; daily; for 14 or 21 days) significantly reduces interstitial fibrosis as verified by a smaller Sirius-Red stained area and also by a reduced number of macrophages, and by the ED-A+ fibronectin deposition and the number of cells positive for alpha-smooth muscle actin[4].

SOLUBILITY

Soluble in DMSO

REFERENCES

[1]. Kovalenko M, et al. Selective platelet-derived growth factor receptor kinase blockers reverse sis-transformation. Cancer Res. 1994 Dec 1;54(23):6106-14.

[2]. Zheng Y, et al. Platelet-derived growth factor receptor kinase inhibitor AG1295 and inhibition of experimental proliferative vitreoretinopathy. Jpn J Ophthalmol. 2003 Mar-Apr;47(2):158-65.

[3]. Inhibition of aortic allograft vasculopathy by local delivery of platelet-derived growth factor receptor tyrosine-kinase blocker AG-1295. Transplantation. 2002 Nov 15;74(9):1335-41.

[4]. Ludewig D, et al. PDGF receptor kinase blocker AG1295 attenuates interstitial fibrosis in rat kidney after unilateral obstruction. Cell Tissue Res. 2000 Jan;299(1):97-103.

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