

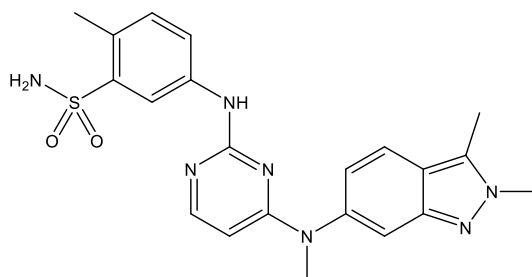
Catalog # 10-2158

Pazopanib

CAS# 444731-52-6

5-[[4-[(2,3-Dimethyl-2H-indazol-6-yl)methylamino]-2-pyrimidinyl]amino]-2-methylbenzenesulfonamide; GSK-VEG10003;
GW786034B

Lot # X107394



Pazopanib inhibits multiple receptor tyrosine kinases including VEGFR1,2 and 3 (IC₅₀s=10, 30, 47 nM respectively) and PDGFR α , β and c-Kit (IC₅₀s=71, 84, 74 nM respectively) and others such as FGFR.¹ The drug targets both the tumor and endothelial cells in a mouse xenograft model of human multiple myeloma.² It reduces joint pain and inhibits cartilage degeneration in rodent osteoarthritis models.³ VEGF inhibitors such as pazopanib have potential for treatment of neovascular age-related macular degeneration.⁴ In clinical use for renal cell carcinoma.⁵

- 1) Kumar *et al.* (2007) *Pharmacokinetic-pharmacodynamic correlation from mouse to human with pazopanib, a multikinase angiogenesis inhibitor with potent antitumor and antiangiogenic activity*; Mol. Cancer Ther. **6** 2012
- 2) Podar *et al.* (2006) *The small-molecule VEGF receptor inhibitor pazopanib (GW786034B) targets both tumor and endothelial cells in multiple myeloma* Proc. Natl. Acad. Sci. USA **103** 19478
- 3) Ma *et al.* (2023) *Targeting Vascular Endothelial Growth Factor Receptors as a Therapeutic Strategy for Osteoarthritis and Associated Pain*; Int. J. Biol. Sci. **19** 675
- 4) Rami-Baraka and Kaiser (2009) *VEGF inhibitors for the treatment of neovascular age-related macular degeneration*; Expert Opin. Investig. Drugs **18** 637
- 5) Comandone *et al.* (2021) *Antiangiogenic Therapy in Clear Cell Renal Carcinoma (CCRC): Pharmacological Basis and Clinical Results*; Cancers (Basel) **13** 5896

PHYSICAL DATA

Molecular Weight:	437.52
Molecular Formula:	C ₂₁ H ₂₃ N ₇ O ₂ S
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (16 mg/ml)
Physical Description:	White to off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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