



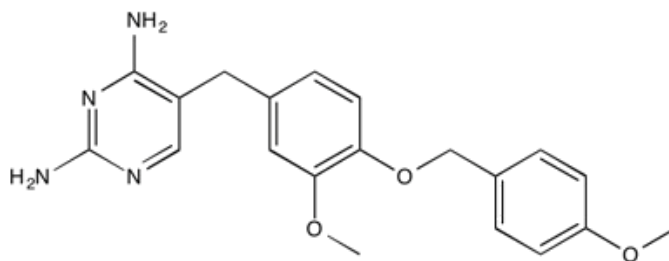
Catalog # 10-2143

GW2580

CAS# 870483-87-7

5-(3-Methoxy-4-((4-methoxybenzyl)oxy)benzyl)pyrimidine-2,4-diamine

Lot # X106133



Potent and selective inhibitor of cFMS receptor kinase. Completely inhibits cFMS *in vitro* at 60 nM with no activity against 26 other kinases¹. Completely inhibits CSF-1 induced growth of mouse M-NFS-60 myeloid cells and human monocytes (at 1 μ M)¹. Completely inhibits bone degradation in human osteoclasts, rat calvaria and fetal long bone¹. Inhibits LPS-induced TNF production in mice. Abrogates infiltration of macrophages into synovial joints of arthritic mice². Active *in vivo*.

- 1) Conway *et al.* (2005), *Inhibition of colony-stimulating-factor-1 signaling in vivo with the orally bioavailable cFMS kinase inhibitor GW2580*; Proc. Natl. Acad. Sci. USA, **102** 16078
- 2) Paniagua *et al.* (2010), *c-Fms-mediated differentiation and priming of monocyte lineage cells play a central role in autoimmune arthritis*; Arthritis Res. Ther., **12** R32

PHYSICAL DATA

Molecular Weight:	366.32
Molecular Formula:	C ₂₀ H ₂₂ N ₄ O ₃
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at room temperature 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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