PRODUCT INFORMATION



GW 2580

Item No. 15411

CAS Registry No.: 870483-87-7

Formal Name: 5-[[3-methoxy-4-[(4-

methoxyphenyl)methoxy[phenyl]

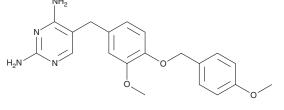
methyl]-2,4-pyrimidinediamine

MF: $C_{20}H_{22}N_4O_3$ FW: 366.4 **Purity:** ≥98%

UV/Vis.: λ_{max} : 228, 283 nm Supplied as: A crystalline solid

Storage: -20°C Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



Laboratory Procedures

GW 2580 is supplied as a crystalline solid. A stock solution may be made by dissolving the GW 2580 in the solvent of choice, which should be purged with an inert gas. GW 2580 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of GW 2580 in these solvents is approximately 10 and 2 mg/ml, respectively.

Description

cFMS kinase is the cellular homolog of the v-FMS oncogene product of the Susan McDonough strain of the feline sarcoma virus. It can autophosphorlyate colony-stimulating factor (CSF-1), which promotes the survival, proliferation, and differentiation of mononuclear phagocytes. GW 2580 selectively inhibits cFMS kinase (IC₅₀ = 0.03 μ M), preventing CSF-1-induced monocyte growth with an IC₅₀ value of 0.14 μ M.¹ At 75-100 mg/kg, it has been shown to inhibit joint connective tissue and bone degradation in mouse models of arthritis.1

Reference

1. Conway, J.G., Pink, H., Bergquist, M.L., et al. Effects of the cFMS kinase inhibitor 5-(3-methoxy-4-((4-methoxybenzyl)oxy)benzyl)pyrimidine-2,4-diamine (GW2580) in normal and arthritic rats. J. Pharmacol. Exp. Ther. 326(1), 41-50 (2008).

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

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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