Technical Data Sheet

GW2580

Catalog Number :8708778

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: GW 2580, 5-(3-methoxy-4-((4-methoxybenzyl)oxy)benzyl)pyrimidine-2,4-diamine

Chemical Name: 5-[[3-methoxy-4-[(4-methoxyphenyl)methoxy]phenyl]methyl]pyrimidine-2,4-diamine

Molecular Formula: $C_{20}H_{22}N_4O_3$

Molecular Weight: 366.4

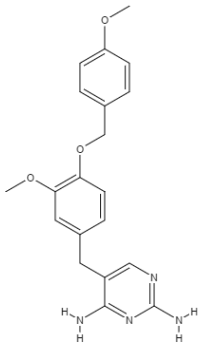
CAS Number: 870483-87-7

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

GW2580 is a highly selective inhibitor of the cFMS kinase and through this pathway this small molecule blocks colony stimulating factor 1 (CSF-1) signaling. It is reported to inhibit CSF-1 induced monocyte growth and bone degradation in vitro in mice arthritis models.

Preparation & Storage

Soluble in organic solvents such as DMF or DMSO. DMSO up to 27mM.

References

1.Conway, J. G., McDonald, B., Parham, J., Keith, B., Rusnak, D. W., Shaw, E., ... Hutchins, J. T. (2005). Inhibition of colony-stimulating-factor-1 signaling in vivo with the orally bioavailable cFMS kinase inhibitor GW2580.;Proceedings of the National Academy of Sciences of the United States of America,;102(44), 16078-16083.

2. Xu, J., Escamilla, J., McBride, W., Wu, L. (2011). Abstract C227: Blockade of tumor-infiltrating myeloid cells by inhibiting CSF-1 receptor overcomes tumor recurrence after radiation therapy.;Molecular Cancer Therapeutics,;10(11 Supplement), C227-C227.

3. Komohara, Y., Hasita, H., Ohnishi, K., Fujiwara, Y., Suzu, S., Eto, M., Takeya, M. (2011). Macrophage infiltration and its prognostic relevance in clear cell renal cell carcinoma.;Cancer science,;102(7), 1424-1431.

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