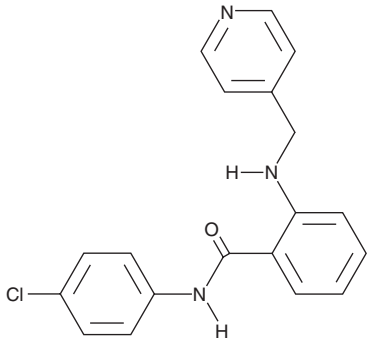
PRODUCT INFORMATION

VEGFR Tyrosine Kinase Inhibitor II

Item No. 17654

CAS Registry No.:	269390-69-4
Formal Name:	N-(4-chlorophenyl)-2-[(4-pyridinylmethyl)amino]-benzamide
Synonym:	Vascular Endothelial Growth Factor Tyrosine Kinase Inhibitor II
MF:	$C_{19}H_{16}ClN_3O$
FW:	337.8
Purity:	≥98%
UV/Vis.:	λ_{max}: 220, 260, 345 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

VEGFR tyrosine kinase inhibitor II is supplied as a crystalline solid. A stock solution may be made by dissolving the VEGFR tyrosine kinase inhibitor II in the solvent of choice, which should be purged with an inert gas. VEGFR tyrosine kinase inhibitor II is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of VEGFR tyrosine kinase inhibitor II in ethanol is approximately 25 mg/ml and approximately 50 mg/ml in DMSO and DMF.

VEGFR tyrosine kinase inhibitor II is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, VEGFR tyrosine kinase inhibitor II should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. VEGFR tyrosine kinase inhibitor II has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

VEGFR tyrosine kinase inhibitor II is a pyridinyl-anthranilamide compound that inhibits the kinase activities of VEGFR2 (KDR), VEGFR1 (FLT1), and c-Kit (IC_{50}s = 20, 180, and 240 nM, respectively).[1] It displays minimal activity against c-Src and EGFR (IC_{50}s = 7 and 7.3 µM, respectively) and is inactive against Cdk1, c-Met, IGF-1R, and PKA (IC_{50}s > 10 µM).[1] VEGFR tyrosine kinase inhibitor II has been investigated for its potential to inhibit tumor induced angiogenesis.[1]

Reference

1. Furet, P., Bold, G., Hofmann, F., *et al*. Identification of a new chemical class of potent angiogenesis inhibitors based on conformational considerations and database searching. *Bioorg. Med. Chem. Lett.* **13(18)**, 2967-2971 (2003).

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