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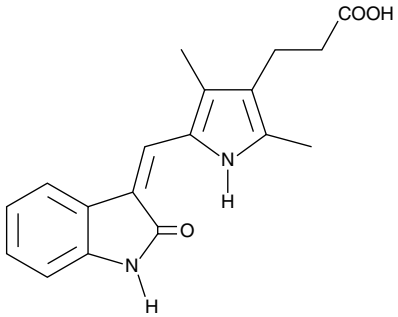
Product Information

SU 6668

Item No. 13873

CAS Registry No.:	252916-29-3
Formal Name:	5-[(1,2-dihydro-2-oxo-3H-indol-3-ylidene)methyl]-2,4-dimethyl-1H-pyrrole-3-propanoic acid
Synonyms:	NSC 702827, Orantinib, TSU-68
MF:	$C_{18}H_{18}N_2O_3$
FW:	310.4
Purity:	≥98%
Stability:	≥2 years at -20°C
Supplied as:	A crystalline solid
UV/Vis.:	λ_{max}: 212, 279, 447 nm



Laboratory Procedures

For long term storage, we suggest that SU 6668 be stored as supplied at -20°C. It should be stable for at least two years.

SU 6668 is supplied as a crystalline solid. A stock solution may be made by dissolving the SU 6668 in the solvent of choice. SU 6668 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of SU 6668 in these solvents is approximately 2.5 and 5 mg/ml, respectively.

SU 6668 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, SU 6668 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. SU 6668 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

SU 6668 is an inhibitor of the receptor tyrosine kinases PDGFRβ, VEGFR2, and FGFR1 (IC_{50} = 0.06, 2.4, and 3.0 µM, respectively) but not EGFR (IC_{50} >100 µM).[1,2] Through these actions, SU 6668 suppresses tumor growth, blocks angiogenesis in tumors, and induces apoptosis of tumor vasculature and regression of established tumors.[3-5] It also inhibits metastasis in a mouse orthotopic model of melanoma.[6] SU 6668 also inhibits Aurora kinases B and C (IC_{50} = 35 and 210 nM, respectively) and may target other kinases.[7,8]

References

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