



Sunitinib

货号: S6761

储存条件: 粉末-20°C 可保存 3 年; 液体-80°C 可保存 12 月。

产品描述

VEGFR (vascular endothelial growth factor) and PDGFR (platelet-derived growth factor receptor) are critical roles in tumor growth and survival via autocrine and paracrine loops, making them the well validated targets for the treatment of cancers. Sunitinib is a multiple RTKs inhibitor with IC50 values of 2nM and 80nM for VEGFR2 and PDGFR β (measured by kinase activity), respectively, also shows inhibition against KIT and FLT3 receptor. The cellular kinase activity induced by VEGF/PDGF can be inhibited by Sunitinib with IC50 value of 5-50nM/10nM in 3T3 cells, while the PDGF-induced cell growth can be inhibited by Sunitinib with IC50 of 8nM. Daily oral administration of Sunitinib at dose of 80mg/kg reduced growth of established SF763T tumor xenografts in athymic mice, as well as suppressed Colo205 tumor growth. Consistent with the cellular kinase study, the inhibition by Sunitinib against p-PDGFR β can be observed in tumor after a single dose at 80mg/kg in mice bearing SF767T tumors and mice bearing Colo205 tumors, as well as suppressed p-FLK1 in A375 xenograft mice dosed 40mg/kg Sunitinib.

作用机制

Sunitinib is an ATP-competitive multitargeted tyrosine kinase inhibitor.

产品信息

CAS 号	557795-19-4	
分子式	C22H27FN4O2	
分子量	398.47	
别名	SU-11248	
溶解度	DMSO	10.0 mg/mL (25.1 mM) warming
	Water	insoluble

