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产品名称：ACTB-1003
产品别名：EOC317

生物活性：

Description	EOC317 (ACTB-1003) is an oral kinase inhibitor with IC50s of 6, 2 and 4 nM for FGFR1, VEGFR2 and Tie-2.		
IC_{50} & Target	FGFR1	VEGFR2	Tie-2
	6 nM (IC_{50})	2 nM (IC_{50})	4 nM (IC_{50})
In Vitro	EOC317 (ACTB-1003) is an oral kinase inhibitor with multiple modes of action, targeting cancer mutations via FGFR inhibition FGFR1 (IC_{50}=6 nM), angiogenesis through inhibition of VEGFR2 (2 nM), Tie-2 (4 nM), and induces apoptosis likely by targeting RSK (5 nM) and p70S6K (32 nM). EOC317 is highly active with dose-dependent tumor growth inhibition in cell lines with FGFR genetic alterations-OPM2 human multiple myeloma and the murine leukemia Ba/F3-TEL-FGFR1. OPM2 cells harbor the FGFR3 t(4:14) translocation, FGFR3 K650E mutation and PTEN deletion while the Ba/F3-TEL-FGFR1 cells are driven by FGFR1 over-expression[1].		
In Vivo	EOC317 (ACTB-1003) is shown to inhibit tumor angiogenesis evident by the inhibition of CD31 staining in tumor sections. EOC317 is combinable with 5-FU or paclitaxel without diminishing the activity or increasing the toxicity of these chemotherapy agents in the HCT-116 colon tumor xenograft model[1].		

Solvent&Solubility

In Vitro:

DMSO : ≥ 35 mg/mL (59.17 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6905 mL	8.4527 mL	16.9053 mL
	5 mM	0.3381 mL	1.6905 mL	3.3811 mL
	10 mM	0.1691 mL	0.8453 mL	1.6905 mL

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。

References

[1]. Patel K, et al. ACTB-1003: An oral kinase inhibitor targeting cancer mutations (FGFR), angiogenesis (VEGFR2, TEK), and induction of apoptosis (RSK and p70S6K). Journal of Clinical Oncology 28, no. 15 DOI: 10.1200/jco.2010.28.15_suppl.e13665