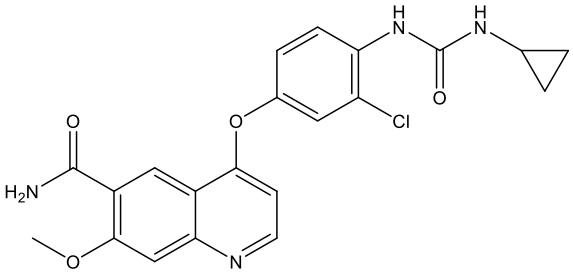
Catalog # 10-3313

Lenvatinib

CAS# 417716-92-8

4-[3-Chloro-4-[[(cyclopropylamino)carbonyl]amino]phenoxy]-7-methoxy-6-quinolinecarboxamide; E7080

Lot # X107623



Lenvatinib is a potent inhibitor of VEGFR2 and R3, IC_{50}s=4.0 and 5.2 nM respectively.[1] Also inhibits VEGFR1, FGFR1, PDGFR3b and Kit, IC_{50}s=22, 46, 39 and 100 nM respectively.[1] Suppresses lymph node and lung metastasis in human mammary breast tumor model.[2] Suppresses tumor cell migration and invasion.[3] Inhibits angiogenesis.[4]

1) Matsui *et al*. (2008), *E7080, a novel inhibitor that targets multiple kinases, has potent antitumor activities against stem cell factor producing human small cell lung cancer H146, based on angiogenesis inhibition*; Int. J. Cancer, **122** 664
2) Matsui *et al*. (2008), *Multi-kinase inhibitor E7080 suppresses lymph node and lung metastases of human mammary breast tumor MDA-MB-231 via inhibition of vascular endothelial growth factor-receptor (VEGF-R) 2 and VEGF-R3 kinase*; Clin. Cancer Res., **14** 5459
3) Glen *et al*. (2011), *E7080, a multi-targeted tyrosine kinase inhibitor suppresses tumor cell migration and invasion*; BMC Cancer, **11** 309
4) Yamamoto *et al*. (2014), *Lenvatinib, an angiogenesis inhibitor targeting VEGFR/FGFR, shows broad antitumor activity in human tumor xenograft models associated with microvessel density and pericyte coverage*; Vasc. Cell, **6** 18

PHYSICAL DATA

Molecular Weight:	426.86
Molecular Formula:	$C_{21}H_{19}ClN_4O_4$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (20 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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