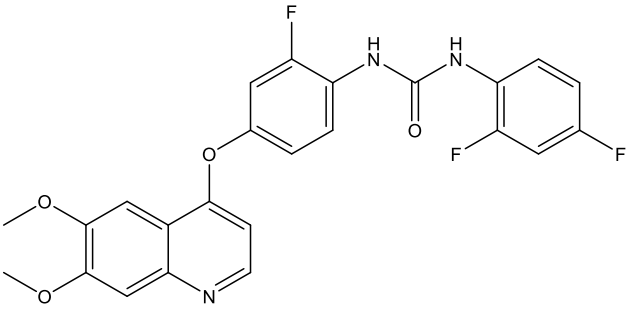
Catalog # 10-4388

Ki8751

CAS# 228559-41-9

N-(2,4-Difluorophenyl)-N'-[4-[(6,7-dimethoxy-4-quinolinyl)oxy]-2-fluorophenyl]urea

Lot # FBS2099



Ki8751 is a very potent (IC_{50} = 0.9 nM) inhibitor of vascular endothelial growth factor receptor 2 (VEGFR-2).[1] It also inhibited PDGFRα (IC_{50} = 67 nM), c-Kit (IC_{50} = 40 nM), and FGFR2 (IC_{50} = 170 nM). Ki8751 completely suppressed HUVEC growth at 1 nM. Ki8751 completely inhibited tumor growth in LC-6 human tumor xenografts @ 5mg/kg. Ki8751 displayed anti-influenza A and B activity *via* disruption of virus entry in a PDGFRβ/GM3-dependent manner.[2]

1) Kubo *et al*. (2005), *Novel potent orally active selective VEGFR-2 tyrosine kinase inhibitors: synthesis, structure-activity relationships, and antitumor activities of N-phenyl-N'{4-(4-quinolyloxy)phenyl}ureas*; J. Med. Chem. **48** 1359
2) Vrijens *et al*. (2019), *Influenza virus entry via the GM3 ganglioside-mediated platelet-derived growth factor receptor β signaling pathway*; J. Gen. Virol. **100** 583

PHYSICAL DATA

Molecular Weight:	469.42
Molecular Formula:	$C_{24}H_{18}F_3N_3O_4$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (15 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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