Famitinib malate

MedChemExpress

®

Cat. No.:	HY-108713A	
CAS No.:	1256377-67-9	O₹ ^H N∖
Molecular Formula:	C ₂₇ H ₃₃ FN ₄ O ₇	
Molecular Weight:	544.57	
Target:	PDGFR; VEGFR; Apoptosis	/ 0
Pathway:	Protein Tyrosine Kinase/RTK; Apoptosis	но
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	0 OH

Description	Famitinib (SHR1020) malate, an orally active multi-targeted kinase inhibitor, inhibits the activity of c-kit, VEGFR-2 and PDGFRβ with IC ₅₀ values of 2.3 nM, 4.7 nM and 6.6 nM, respectively. Famitinib malate induces cell apoptosis. Famitinib malate exerts powerful antitumor activity in human gastric cancer cells and xenografts, it can be used for the research of cancer ^{[1][2]} .		
IC ₅₀ & Target	VEGFR2 4.2 nM (IC ₅₀)	PDGFRβ 6.6 nM (IC ₅₀)	c-kit 2.3 nM (IC ₅₀)
In Vitro	Familinib malate inhibits the VEGF-induced proliferation, migration and tubule formation of human umbilical vein endothelial cells, and micro-vessel spouting from matrigel-embedded rat aortic rings ^[1] .Famitinib malate (1.8 and 3.6 μM; 48 h) inhibits cell proliferation by inducing cell cycle arrest at the G2/M phase and causes cell apoptosis in a dose-dependent manner in gastric cancer cell lines ^[2] .Famitinib malate (0.6-20.0 μM; 24-72 h) inhibits gastric cancer cell growth in a dose-dependent manner ^[2] .MCE has not independently confirmed the accuracy of these methods. They are for reference only.Cell Proliferation Assay ^[2] Cell Line:Human gastric cancer cells BGC-823 and MGC-803Concentration:0, 0.6, 1.25, 2.5, 5.0, 10.0 and 20.0 μMIncubation Time:24, 48 and 72 hours		
	Result: Inhibited cell growth in a dose-dependent manner with IC ₅₀ values of 3.6 and 3.1 μM for BGC-823 and MGC-803 cells, respectively.		
In Vivo	Famitinib malate exhibits bro xenografts derived from hum Famitinib malate (50 and 100 [2]. MCE has not independently co Animal Model:	ad and potent anti-tumor activity an tumor cell lines ^[1] . mg/kg; p.o. once daily for 3 week onfirmed the accuracy of these m 18-20 g female BALB/c athymic	y, leading to regression or growth arrest of various established (s) reduces tumor growth in vivo via inhibition of angiogenesis nethods. They are for reference only.
In Vivo	Incubation Time:24, 48 and 72 hoursResult:Inhibited cell growth in a dose-dependent manner with IC ₅₀ values of 3.6 and 3.1 μM for BGC-823 and MGC-803 cells, respectively.Famitinib malate exhibits broad and potent anti-tumor activity, leading to regression or growth arrest of various established xenografts derived from human tumor cell lines ^[1] . Famitinib malate (50 and 100 mg/kg; p.o. once daily for 3 weeks) reduces tumor growth in vivo via inhibition of angiogenesis [2].MCE has not independently confirmed the accuracy of these methods. They are for reference only.Animal Model:18-20 g female BALB/c athymic nu/nu mice (age, 6–8 weeks) bearing BGC-823 xenografts ^[2]		

Dosage:	50 and 100 mg/kg
Administration:	Oral gavage; 50 and 100 mg/kg; once daily for 3 weeks
Result:	Inhibited BGC-823 xenograft growth (tumor volume, 395.2 vs. 2,690.5 mm ³), and anima weights were similar between groups (21.6 vs. 18.7 g).

REFERENCES

[1]. Liguang Lou, et al. Abstract 3604: Preclinical antitumor study of famitinib, an orally available multi-targeted kinase inhibitor of VEGFR/PDGFR/c-Kit in phase I clinical trials.

[2]. Sai Ge, et al. Famitinib exerted powerful antitumor activity in human gastric cancer cells and xenografts. Oncol Lett. 2016 Sep;12(3):1763-1768.

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA