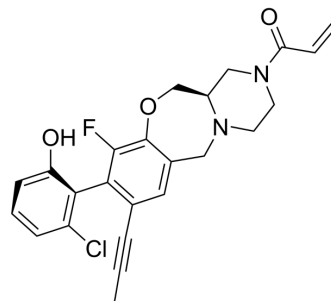


AZD4747

Cat. No.:	HY-154959		
CAS No.:	2489226-14-2		
Molecular Formula:	C ₂₄ H ₂₂ ClFN ₂ O ₃		
Molecular Weight:	440.89		
Target:	Ras		
Pathway:	GPCR/G Protein; MAPK/ERK Pathway		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (567.03 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.2681 mL	11.3407 mL	22.6814 mL
5 mM	0.4536 mL	2.2681 mL	4.5363 mL
10 mM	0.2268 mL	1.1341 mL	2.2681 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

AZD4747 is a selective, blood-brain barrier-permeable mutant GTPase KRAS^{G12C} inhibitor. AZD4747 has the potential to study cancer^[1].

IC₅₀ & Target

KRAS^{G12C}^[1].

In Vivo

AZD4747 (1.1-2.3 μM/kg (i.v.); 2.3-6.8 μM/kg (p.o.); single) shows clearances of moderate to high, with 52 and 75% of hepatic blood flow for the mouse and rat, respectively^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model: Male CD1 mice, male Wistar Han rats^[1].

Dosage: Mouse: 2.3 μM/kg (i.v.); 6.8 μM/kg (p.o.);
Rat: 1.1-2.3 μM/kg (i.v.); 6.8 μM/kg (p.o.).

Administration:	i.v. and p.o.			
Result:	Pharmacokinetic Parameters of AZD4747 in Cross Species ^[1] .			
	Mouse		Rat	
	IV ^a	PO ^a	IV ^a	PO ^a
Eh (%)	52		75	
V _{ss} (L/kg)	2.9		1.7	
T _{1/2} (h)	0.63		0.56	
F%		58		18
Note: a: 5% DMSO, 95% SBE-B-CD (30% w/v) in water.				

REFERENCES

[1]. Kettle JG, et al. Discovery of AZD4747, a Potent and Selective Inhibitor of Mutant GTPase KRASG12C with Demonstrable CNS Penetration. J Med Chem. 2023 Jul 13;66(13):9147-9160.

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