## AZD2932

Cat. No.:	HY-18179		
CAS No.:	883986-34-3	3	
Molecular Formula:	C <sub>24</sub> H <sub>25</sub> N <sub>5</sub> O <sub>2</sub>	1	
Molecular Weight:	447.49		
Target:	PDGFR; VEGFR; FLT3; c-Kit		
Pathway:	Protein Tyre	osine Kina	se/RTK
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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### SOLVENT & SOLUBILITY

In Vitro	DMSO : 10 mg/mL (22.35 mM; Need ultrasonic)				
Preparing Stock Solutions	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	2.2347 mL	11.1734 mL	22.3469 mL
	5 mM	0.4469 mL	2.2347 mL	4.4694 mL	
	10 mM	0.2235 mL	1.1173 mL	2.2347 mL	
	Please refer to the sol	ubility information to select the ap	propriate solvent.		
In Vivo	1. Add each solvent o Solubility: ≥ 1 mg/r	one by one: 10% DMSO >> 40% PE( mL (2.23 mM); Clear solution	G300 >> 5% Tween-8	) >> 45% saline	
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1 mg/mL (2.23 mM); Suspended solution; Need ultrasonic				
	<ol> <li>Add each solvent of Solubility: ≥ 1 mg/s</li> </ol>	one by one: 10% DMSO >> 90% cor mL (2.23 mM); Clear solution	n oil		

DIOLOGICAL ACTIV				
Description	AZD2932 is a potent and mult assay, respectively.	i-targeted kinase inhibitor VEGFF	R2, PDGFβ, Flt-3 and c-Kit with IC	<sub>50</sub> s of 8, 4, 7 and 9 nM in cell
IC <sub>50</sub> & Target	VEGFR2 8 nM (IC <sub>50</sub> )	PDGFRβ 4 nM (IC <sub>50</sub> )	FLT3 7 nM (IC <sub>50</sub> )	c-Kit 9 nM (IC <sub>50</sub> )
In Vitro	AZD2932 has a potent and ba	lanced profile against PDGFβ, VE	GFR-2, Flt-3 and c-Kit. It does not	inhibit the various

# Product Data Sheet

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	cytochrome P450 isoforms with the worst IC <sub>50</sub> being against 2C9 (8.0 μM). AZD2932 has no activity against hERG (IC <sub>50</sub> =137 μ M) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Twice daily oral dosing (b.i.d.) of AZD2932 10 h apart results in significant tumor growth inhibition of 64% for both 50 and 12.5 mg/kg doses on the day the control animals are terminated. Xenografts bearing non PDGFβ expressing tumor cells are also sensitive to AZD2932 treatment: growth of Calu-6 tumor is inhibited by 81% and 72% at 50 and 12.5 mg/kg b.i.d. and and LoVo tumors by 67% at 50 mg/kg b.i.d. This is due AZD2932 potent activity against VEGFR2 as well as a potential effect on pericytes and tumor-associated fibroblasts due to PDGFR a and b inhibition. AZD2932 at 3–50 mg/kg b.i.d. 10 h apart gives 60–80% inhibition of both p-VEGFR2 and p-PDGFβ in a 1:1 ratio <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### PROTOCOL

Animal Administration <sup>[1]</sup>	Mice: To confirm that AZD2932 has similar potency against both PDGFβ and VEGFR-2 phosphorylation, the female nude mice bearing C6 tumors are dosed iv with VEGF-A and PDGF <sub>BB</sub> 5 min prior to cull and 6 h post last dose of AZD2932 and the lungs excised immediately after. Lung lysates are analyzed by western blot for total and phosphorylated VEGFR-2 and PDGF g[1]
	p، MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### REFERENCES

[1]. Plé PA, et al. Discovery of AZD2932, a new Quinazoline Ether Inhibitor with high affinity for VEGFR-2 and PDGFR tyrosine kinases. Bioorg Med Chem Lett. 2012 Jan 1;22(1):262-6.

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

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