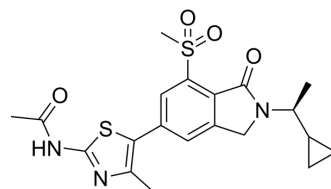


AZD3458

Cat. No.:	HY-112443		
CAS No.:	2132961-46-5		
Molecular Formula:	C ₂₀ H ₂₃ N ₃ O ₄ S ₂		
Molecular Weight:	433.54		
Target:	PI3K		
Pathway:	PI3K/Akt/mTOR		
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 (576.65 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.3066 mL	11.5330 mL	23.0659 mL
		5 mM	0.4613 mL	2.3066 mL	4.6132 mL
10 mM		0.2307 mL	1.1533 mL	2.3066 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.80 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.80 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.80 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	AZD3458 is a potent and remarkably selective PI3Kγ inhibitor with pIC ₅₀ s of 9.1, 5.1, <4.5, and 6.5 for PI3Kγ, PI3Kα, PI3Kβ, and PI3Kδ, respectively ^[1] .			
IC ₅₀ & Target	PI3Kγ 9.1 (pIC ₅₀)	PI3Kα 5.1 (pIC ₅₀)	PI3Kβ 4.5 (pIC ₅₀)	PI3Kδ 6.5 (pIC ₅₀)
	PI3KC2α 5 (pIC ₅₀)	PI3KC2β 7.5 (pIC ₅₀)	PI3KC2γ 5.5 (pIC ₅₀)	PI3KC3 5.1 (pIC ₅₀)

In Vitro

AZD3458 (Compound 15) also inhibits PI3KC2 α , PI3KC2 β , PI3KC2 γ , and PI3KC3 with pIC₅₀s of <5, 7.5, 5.5, and 5.1, respectively^[1].

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

REFERENCES

[1]. Pemberton N, et al. Discovery of Highly Isoform Selective Orally Bioavailable Phosphoinositide 3-Kinase (PI3K)- γ Inhibitors. J Med Chem. 2018 Jun 28;61(12):5435-5441.

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

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