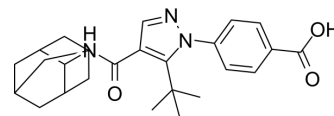


AZD8329

Cat. No.:	HY-18173		
CAS No.:	1048668-70-7		
Molecular Formula:	C ₂₅ H ₃₁ N ₃ O ₃		
Molecular Weight:	421.53		
Target:	11 β -HSD		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (148.27 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions	1 mM	2.3723 mL	11.8616 mL
		5 mM	2.3723 mL	4.7446 mL
		10 mM	0.2372 mL	1.1862 mL
	Please refer to the solubility information to select the appropriate solvent.			
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: \geq 2.08 mg/mL (4.93 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: \geq 2.08 mg/mL (4.93 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: \geq 2.08 mg/mL (4.93 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	AZD8329 is a potent 11 β -Hydroxysteroid dehydrogenase type 1 (11 β -HSD1) inhibitor with an IC ₅₀ of 9 nM for human 11 β -HSD1, displays excellent selectivity versus 11 β -HSD2, 17 β -HSD1 and 17 β -HSD3 ^[1] .
IC ₅₀ & Target	IC ₅₀ : 9 nM (Human 11 β -HSD1) ^[1]
In Vitro	AZD8329 shows IC ₅₀ s of 0.009, 0.0086, 0.008, 0.024, 0.002 and 6.1 μ M for human enzyme, rat enzyme, dog enzyme, cyno enzyme, human adipocyte and mouse enzyme, respectively ^[1] .

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

REFERENCES

[1]. Scott JS, et al. Novel acidic 11 β -hydroxysteroid dehydrogenase type 1 (11 β -HSD1) inhibitor with reduced acyl glucuronide liability: the discovery of 4-[4-(2-adamantylcarbamoyl)-5-tert-butyl-pyrazol-1-yl]benzoic acid (AZD8329). *J Med Chem.* 2012 Nov 26;55(22):10136-47.

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

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