BMS-816336

HY-101930		
1009583-20-3		
C ₂₁ H ₂₇ NO ₃		
341.44		
11β-HSD		
Metabolic Enzyme/Protease		
Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month
	1009583-20 C ₂₁ H ₂₇ NO ₃ 341.44 11β-HSD Metabolic E Powder	1009583-20-3 C ₂₁ H ₂₇ NO ₃ 341.44 11β-HSD Metabolic Enzyme/P Powder -20°C 4°C In solvent -80°C

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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	2.9288 mL	14.6439 mL	29.2877 mL	
		5 mM	0.5858 mL	2.9288 mL	5.8575 mL	
		10 mM	0.2929 mL	1.4644 mL	2.9288 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: ≥ 7.5 mg/mL (21.97 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 7.5 mg/mL (21.97 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 7.5 mg/mL (21.97 mM); Clear solution					

BIOLOGICAL ACTIVITY					
Description	BMS-816336 is a novel, potent and orally bioavailable inhibitor against human 11 β -hydroxysteroid dehydrogenase type 1 (11 β -HSD1) enzyme with an IC ₅₀ of 3.0 nM ^[1] .				
IC ₅₀ & Target	IC50: 3.0 nM (11β-HSD1) ^[1]				
In Vitro	11β-HSD1 inhibition may be useful in the treatment of type II diabetes and other potential clinical utilities such as atheroprotection and cognitive protection. BMS-816336 (6n-2) inhibits 11β-HSD1 enzyme in HEK and 3T3L1 cells with IC ₅₀ s				

Product Data Sheet

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	of 37.3 and 28.6 nM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	BMS-816336 represents a potential new treatment for type 2 diabetes, metabolic syndrome, and other human diseases modulated by glucocorticoid control. BMS-816336 (6n-2) exhibits a robust acute pharmacodynamic effect in cynomolgus monkeys (ED ₅₀ =0.12 mg/kg) and in DIO mice (1, 3, 10, 30, 100 mg/kg, 120 mintues). It is orally bioavailable (%F ranges from 20 to 72% in preclinical species) and has a predicted pharmacokinetic profile of a high peak to trough ratio and short half- life in humans ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Nonfasting diet-induced obese male mice ^[1]	
	Dosage:	1, 3, 10, 30, 100 mg/kg	
	Administration:	Oral, 120 mintues	
	Result:	$ED_{50}\text{=}8.6~\text{mg/kg}$ and a plasma EC_{50} of 0.85 μM in this model $^{[1]}$.	

REFERENCES

[1]. Ye XY, et al. Discovery of Clinical Candidate 2-((2S,6S)-2-Phenyl-6-hydroxyadamantan-2-yl)-1-(3'-hydroxyazetidin-1-yl)ethanone [BMS-816336], an Orally Active Novel Selective 11β-Hydroxysteroid Dehydrogenase Type 1 Inhibitor. J Med Chem. 2017 Jun 22;60(12):4932-4948.

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

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