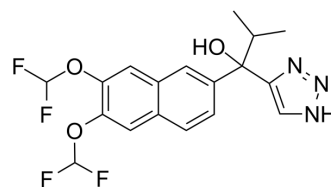


Seviteronel racemate

Cat. No.:	HY-15996B		
CAS No.:	1375603-36-3		
Molecular Formula:	C ₁₈ H ₁₇ F ₄ N ₃ O ₃		
Molecular Weight:	399.34		
Target:	Cytochrome P450		
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 : 50 mg/mL (125.21 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.5041 mL	12.5207 mL	25.0413 mL
		5 mM	0.5008 mL	2.5041 mL	5.0083 mL
10 mM		0.2504 mL	1.2521 mL	2.5041 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: ≥ 3 mg/mL (7.51 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3 mg/mL (7.51 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Seviteronel racemate (VT-464 racemate) is the racemate form of Seviteronel (VT-464), which is a potent CYP17 lyase inhibitor(h-Lyase IC ₅₀ =nM)inhibition.
IC₅₀ & Target	IC ₅₀ : 69 nM(VT-464, h-CYP17 Lyase) ^[1] .
In Vitro	Seviteronel (VT-464), a non-steroidal small molecule inhibits androgen production without mineralocorticoid excess or cortisol depletion by selective inhibition of CYP17 17,20-lyase. We determined the impact of Seviteronel on tumor growth of a mCRPC xenograft, MDA-PCa-133, in vivo, and on androgen signaling in C4-2B prostate cancer cells in vitro [2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

The MDA-PCa-133 xenograft is derived from a clinical CRPC bone metastasis. Subcutaneous MDA-PCa-133 tumor expresses PSA, full-length androgen receptor (AR) and AR-V7 isoform. We determined the effect of Seviteronel (VT-464) and AA on MDA-PCa-133 growing in tumor-bearing castrated male mice: randomization into three groups; oral treatment with vehicle only, Seviteronel (VT-464), (100 mg/kg bid), or AA (100 mg/kg bid) for 25 days. Both Seviteronel (VT-464) and AA reduced tumor volume (>two fold compared to vehicle; $p < 0.05$). These results indicate that selective Seviteronel (VT-464) CYP17 lyase inhibition is as effective as AA CYP17 inhibition in this model [2].

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

REFERENCES

- [1]. Rafferty SW, et al. Highly-selective 4-(1,2,3-triazole)-based P450c17a 17,20-lyase inhibitors. *Bioorg Med Chem Lett*. 2014 Jun 1;24(11):2444-7.
- [2]. Sankar N. Maity, et al. Abstract 4772: Efficacy of VT-464, a novel selective inhibitor of cytochrome P450 17,20-lyase, in castrate-resistant prostate cancer models. *Cancer Research*: April 15, 2013; Volume 73, Issue 8, Supplement 1

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

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