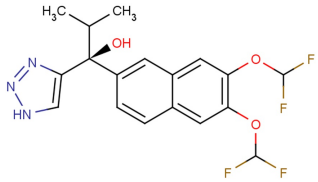
Data Sheet (Cat.No.T13312L)

TargetMol
A DRUG SCREENING EXPERT

Seviteronel

Chemical Properties



CAS No.:	1610537-15-9
Formula:	C18H17F4N3O3
Molecular Weight:	399.34
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Seviteronel is an effective CYP17 lyase inhibitor (h-Lyase IC50=69 nM). In a hamster model of androgen biosynthesis inhibition, it demonstrated both exceptional in vitro lyase/hydroxylase selectivity (~10-fold) and oral activity.
Targets(IC_{50})	h-CYP17 Lyase: 69 nM
In vitro	Seviteronel is 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 an mCRPC xenograft, MDA-PCa-133, in vivo, and on androgen signaling in C4-2B prostate cancer cells in vitro [2].
In vivo	We determined the effect of Seviteronel and AA on MDA-PCa-133 growing in tumor-bearing castrated male mice: randomization into three groups; oral treatment with vehicle only, VT-464, (100 mg/kg bid), or AA (100 mg/kg bid) for 25 days. Both Seviteronel and AA decreased tumor volume (>two fold compared to the vehicle; $p<0.05$). These results indicate that selective Seviteronel CYP17 lyase inhibition is as effective as AA CYP17 inhibition in this model [2].

Solubility Information

Solubility	DMSO: 50 mg/mL (125.21 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.504 mL	12.521 mL	25.041 mL
5 mM	0.501 mL	2.504 mL	5.008 mL
10 mM	0.25 mL	1.252 mL	2.504 mL
50 mM	0.05 mL	0.25 mL	0.501 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

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

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Tel:781-999-4286 E-mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481