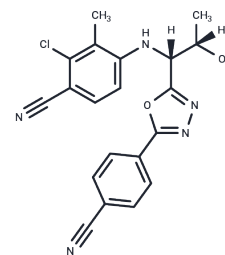


Vosilasarm

Chemical Properties

CAS No. :	1182367-47-0
Formula:	C ₂₀ H ₁₆ ClN ₅ O ₂
Molecular Weight:	393.82
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	RAD140 is an investigational selective androgen receptor modulator (SARM) for the treatment of conditions such as muscle wasting and breast cancer.
Targets(IC50)	Androgen Receptor
In vitro	RAD140 demonstrates excellent affinity for the androgen receptor ($K_i = 7$ nM) as well as good selectivity over other steroid hormone nuclear receptors.
In vivo	in vivo: The stability of RAD140 is high ($t_{1/2} > 2$ h) in incubations with rat, monkey, and human microsomes, and it also had good bioavailability in rats and monkeys. RAD140 is also neuroprotective using the rat kainate lesion model. RAD140 is shown to exhibit peripheral tissue-specific androgen action that largely spared prostate, neural efficacy by activation of androgenic gene regulation effects, and neuroprotection of hippocampal neurons against cell death caused by systemic administration of the excitotoxin kainate.

Solubility Information

Solubility	DMSO: 250 mg/mL (634.81 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (25.39 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (25.39 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5392 mL	12.6962 mL	25.3923 mL
5 mM	0.5078 mL	2.5392 mL	5.0785 mL
10 mM	0.2539 mL	1.2696 mL	2.5392 mL
50 mM	0.0508 mL	0.2539 mL	0.5078 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Miller CP, et al. Design, Synthesis, and PreClinicalal Characterization of the Selective Androgen Receptor Modulator (SARM) RAD140. ACS Med Chem Lett. 2010 Dec 2;2(2):124-129.

Jayaraman A, et al. Selective androgen receptor modulator RAD140 is neuroprotective in cultured neurons and kainate-lesioned male rats. Endocrinology. 2014 Apr;155(4):1398-1406.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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