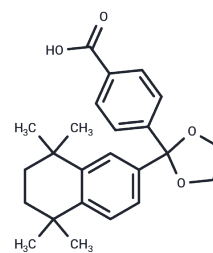


SR11237

Chemical Properties

CAS No. : 146670-40-8
 Formula: C₂₄H₂₈O₄
 Molecular Weight: 380.48
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	SR11237 is a Pan retinoid X receptor (RXR) agonist. SR11237 causes RXR/RXR homodimers to form and transactivate a reporter gene containing a RXR-response element.
Targets(IC50)	Retinoid Receptor,RAR/RXR
In vitro	SR11237 is effective at transactivating a chloramphenicol acetyltransferase reporter gene through RXRs but not retinoic acid receptors in COS-1 cells[2].
In vivo	In Sprague-Dawley rats, SR11237 (BMS-649) (25 mg/kg; i.p.) Caused disturbed ossification and bone morphology in rats, including premature growth plate closure and infiltration of ossified tissue through the central epiphysis[3].

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 4 mg/mL (10.51 mM),Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6283 mL	13.1413 mL	26.2826 mL
5 mM	0.5257 mL	2.6283 mL	5.2565 mL
10 mM	0.2628 mL	1.3141 mL	2.6283 mL
50 mM	0.0526 mL	0.2628 mL	0.5257 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

H.L. Dupuis. The RXR agonist SR-11237 affects skeletal development. ABSTRACT ONLY| VOLUME 24, SUPPLEMENT 1, S147, APRIL 01, 2016.

Gendimenico GJ, et al. A pleiotropic response is induced in F9 embryonal carcinoma cells and rhino mouse skin by All-trans-retinoic acid, a RAR agonist but not by SR11237, a RXR-selective agonist. J Invest Dermatol. 1994;102(5): 676-680.

Dupuis H, et al. Exposure to the RXR Agonist SR11237 in Early Life Causes Disturbed Skeletal Morphogenesis in a Rat Model. Int J Mol Sci. 2019;20(20):5198. Published 2019 Oct 20.

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