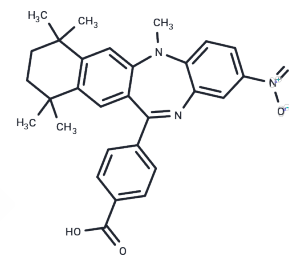


HX 531

Chemical Properties

CAS No. : 188844-34-0
 Formula: C₂₉H₂₉N₃O₄
 Molecular Weight: 483.56
 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	HX 531 is a RXR antagonist (IC ₅₀ of 18 nM). HX 531 prevents HF diet-induced obesity, insulin resistance, and diabetes by reducing tissue TG content in white adipose tissue (WAT), skeletal muscle, and liver in mice.
Targets(IC ₅₀)	Apoptosis, Retinoid Receptor, MDM-2/p53
In vivo	METHODS: HX531 (100 mg/kg, oral) was administered to mice, and the maximum plasma concentration (C _{max}), time required to reach maximum concentration (T _{max}), area under the plasma concentration-time curve (AUC), and elimination half-life (t _{1/2}) were measured by HPLC and gas chromatography. RESULTS In mice, they were 4.1 µg/mL, 1.5 hours, 19.3 µg h/mL, and 1.9 hours, respectively. [2]

Solubility Information

Solubility	DMSO: 150 mg/mL (310.2 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: 1 mg/mL (2.07 mM), Sonication is recommended. <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	2.068 mL	10.340 mL	20.680 mL
5 mM	0.4136 mL	2.068 mL	4.136 mL
10 mM	0.2068 mL	1.034 mL	2.068 mL
50 mM	0.0414 mL	0.2068 mL	0.4136 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

- Konta T, et al. Selective roles of retinoic acid receptor and retinoid x receptor in the suppression of apoptosis by all-trans-retinoic acid. *J Biol Chem.* 2001 Apr 20;276(16):12697-701.
- Yamauchi T, et al. Inhibition of RXR and PPARgamma ameliorates diet-induced obesity and type 2 diabetes. *J Clin Invest.* 2001 Oct;108(7):1001-13.
- Kilbourne AM, Goodrich DE, Lai Z, Almirall D, Nord KM, Bowersox NW, Abraham KM. Reengaging veterans with serious mental illness into care: preliminary results from a national randomized trial. *Psychiatr Serv.* 2015 Jan 1;66(1):90-3.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481