Veledimex (S enantiomer)

Cat. No.: HY-16785B

CAS No.: 1093131-03-3

Molecular Formula: $C_{27}H_{38}N_2O_3$

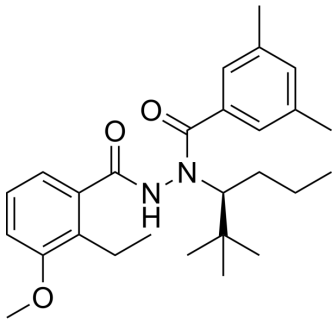
Molecular Weight: 438.6

Target: Interleukin Related

Pathway: Immunology/Inflammation

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (228.00 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.2800 mL	11.3999 mL	22.7998 mL
5 mM	0.4560 mL	2.2800 mL	4.5600 mL
10 mM	0.2280 mL	1.1400 mL	2.2800 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Veledimex S enantiomer (INXN-1001 S enantiomer) is the S enantiomer of veledimex. Veledimex is an oral activator ligand for a proprietary gene therapy promoter system, and a moderate inhibitor of and substrate for CYP3A4/5[1].

IC_{50} & Target

IL-1

In Vivo

Veledimex generally has moderate to low oral bioavailability after a single oral administration in mice and monkeys (-56% in mice and up to 17.4% in cynomolgus monkeys) with mostly low plasma clearance (1399 and 1170 mL/h per kilogram in mice and monkeys, respectively), high volume of distribution (20271 and 9180 mL/h per kilogram in mice and monkeys, respectively), and long terminal half-lives (-10 hours in mice and -30 hours in monkeys) after intravenous administration[1]. Ad-RTS-mIL-12 + veledimex have demonstrated a dose-related increase in tumor IL-12 mRNA and IL-12 protein expression. Discontinuation of veledimex resulted in a return to baseline IL-12 mRNA and protein expression in numerous syngeneic mouse tumor models. Veledimex crosses the blood-brain-barrier in both naive and orthotopic GL-261 mice with increased brain tissue level of -6 fold observed in tumor bearing vs. normal mice. Ad-RTS-mIL-12 + veledimex demonstrate a dose-related increase in survival without significant adverse events[2].

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

REFERENCES

[1]. Barrett JA, et al. Regulated intratumoral expression of IL-12 using a RheoSwitch Therapeutic System® (RTS®) gene switch as gene therapy for the treatment of glioma. Cancer Gene Ther. 2018;25(5-6):106-116.

[2]. John A. Barrett, INTRATUMORAL REGULATED EXPRESSION OF IL-12 AS A GENE THERAPY APPROACH TO TREATMENT OF GLIOMA. Neuro Oncol. 2015 Nov; 17(Suppl 5): v113.

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