Proteins

Product Data Sheet

ONO 1301

Cat. No.: HY-106961 CAS No.: 176391-41-6 Molecular Formula: $C_{26}H_{24}N_{2}O_{4}$ Molecular Weight: 428.48

Target: Prostaglandin Receptor

GPCR/G Protein Pathway:

Storage: Powder -20°C 3 years

> -80°C In solvent 6 months

> > -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 50 mg/mL (116.69 mM; Need ultrasonic)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.3338 mL	11.6692 mL	23.3383 mL
	5 mM	0.4668 mL	2.3338 mL	4.6677 mL
	10 mM	0.2334 mL	1.1669 mL	2.3338 mL

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

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Description	thromboxane-synthase inhibitor	ostaglandin (PG) I2 mimetic, is an orally active, long-acting prostacyclin agonist with y activity. ONO 1301 promotes production of hepatocyte growth factor (HGF) from various nia-induced left ventricle dysfunction in the mouse, rat and $\operatorname{pig}^{[1][2][3]}$.
In Vitro	of 460 nM ^[3] . ONO-1301 (0-1000 nM) significan	its collagen-induced aggregation in a concentration-dependent manner, with an IC $_{50}$ value tly increases alkaline phosphatase (ALP) activity in the primary osteoblasts and ST2 cells ^[3] . rmed the accuracy of these methods. They are for reference only.
In Vivo	experimental autoimmune myoc MCE has not independently confi	or 4 weeks) improves the hemodynamic status of rats with dilated cardiomyopathy after arditis $^{[1]}$. rmed the accuracy of these methods. They are for reference only. ight-week-old male Lewis rats (rat model of myosin-induced experimental autoimmune pyocarditis) $^{[1]}$

Dosage:	6 mg/kg
Administration:	Orally; /daily for 4 weeks
Result:	Hemodynamic parameters and plasma brain natriuretic peptide (BNP) level were significantly improved.

REFERENCES

- [1]. Hirata Y, et al. Beneficial effect of a synthetic prostacyclin agonist, ONO-1301, in rat autoimmune myocarditis model. Eur J Pharmacol. 2013;699(1-3):81-87.
- [2]. Kashiwagi H, et al. The novel prostaglandin I2 mimetic ONO-1301 escapes desensitization in an antiplatelet effect due to its inhibitory action on thromboxane A2 synthesis in mice. J Pharmacol Exp Ther. 2015;353(2):269-278.
- [3]. Kanayama S, et al. ONO-1301 Enhances in vitro Osteoblast Differentiation and in vivo Bone Formation Induced by Bone Morphogenetic Protein. Spine (Phila Pa 1976). 2018;43(11):E616-E624.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

 $\hbox{E-mail: } tech@MedChemExpress.com$

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA