
Product Data Sheet

Product Name: Usmarapride

Cat. No.: GC64080

Chemical Properties

Cas. No. 1428862-33-2

Formula C₂₃H₃₁N₅O₆ M.Wt 473.52

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Usmarapride (SUVN-D4010) is a potent, selective, orally active and brain penetrant 5-HT₄ receptor partial agonist (EC₅₀=44 nM). Usmarapride (SUVN-D4010) can be used for the research of cognitive deficits associated with Alzheimer's disease[1].

Usmarapride (SUVN-D4010) (1-3 mg/kg; p.o.; Male Wistar rats 10-12 weeks old) attenuates the long-term memory deficits in object recognition test (ORT) [1]. Usmarapride (1, 3, and 10 mg/kg; p.o.) significantly reverses the scopolamine-induced amnesia[1]. Usmarapride shows a statistically significant effect at 3.0 mg/kg on both exploration time and recognition index[1]. Usmarapride (SUVN-D4010) shows good oral exposures, good bioavailability, and good brain exposures in rats[1]. Pharmacokinetic of Usmarapride in Rats[1](3.0 mg/kg for p.o. dosing; 1.0 mg/kg for i.v.) F% C_{max} (ng/mL) AUC (ng.hr/mL) t_{1/2} (h) V_{dss} (L/kg) CL (mLg/min/kg) 34 360 709 1.7 8.0 76

[1]. Nirogi, Ramakrishna; Mohammed, Abdul Rasheed; Yarlghadda, Suresh; Ravella, Srinivasa Rao; Shinde, Anil Karbhari; Kambhampati, Ramasastry; Roayalley, Praveen Kumar; Jayarajan, Pradeep; Bhyrapuneni, Gopinadh; Patnala, Sriramachandra Murthy; et al. Preparation of heteroaryl compounds as 5-HT₄ receptor ligands. WO2013042135A1

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

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