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## Product Data Sheet

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Product Name: Usmarapride free base

Cat. No.: GC64660

### Chemical Properties

Cas. No. 1428862-32-1

Formula C<sub>21</sub>H<sub>29</sub>N<sub>5</sub>O<sub>2</sub>

M.Wt 383.49

Solubility DMSO :  $\geq$  100 mg/mL (260.76 mM)

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) free base is a potent, selective, orally active and brain penetrant 5-HT<sub>4</sub> receptor partial agonist (EC<sub>50</sub>=44 nM). Usmarapride (SUVN-D4010) free base 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) free base attenuates the long-term memory deficits in object recognition test (ORT) [1]. Usmarapride (1, 3, and 10 mg/kg; p.o.) free base significantly reverses the scopolamine-induced amnesia[1]. Usmarapride free base shows a statistically significant effect at 3.0 mg/kg on both exploration time and recognition index[1]. Usmarapride (SUVN-D4010) free base shows good oral exposures, good bioavailability, and good brain exposures in rats[1].

[1]. Nirogi R, et al. Discovery and Preclinical Characterization of Usmarapride (SUVN-D4010): A Potent, Selective 5-HT<sub>4</sub> Receptor Partial Agonist for the Treatment of Cognitive Deficits Associated with Alzheimer's Disease. J Med Chem. 2021;64(15):10641-10665.

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

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