

Donecopride (fumarate hydrate) Biochemical

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CATALOG #
AAA227184

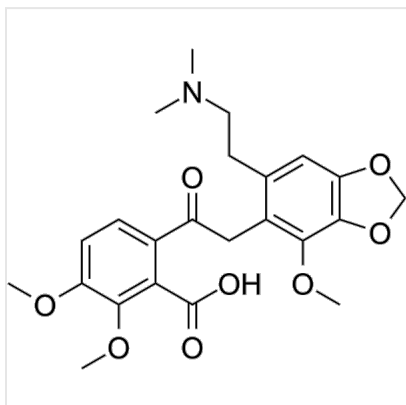
PRODUCT SYNONYMS

Donecopride (fumarate hydrate); Narcein; Donecopride (fumarate hydrate) biochemical

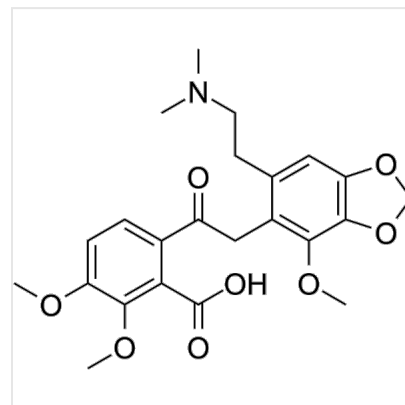
PRODUCT SPECIFICATIONS

Purity/Purification	98%
Solubility	DMSO: 50 mg/mL <1mg/ml refers to the product slightly soluble or insoluble
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Narceine, CAS 131-28-2



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ADDITIONAL INFORMATION

Related Product Information for Donecopride (fumarate hydrate) biochemical

Donecopride is a partial agonist of the serotonin (5-HT) receptor subtype 5-HT₄E (K_i= 8.5 nM) and an inhibitor of acetylcholinesterase (AChE; IC₅₀= 16 nM). It is selective for AChE over butyrylcholinesterase (BChE; IC₅₀= 3,530 nM) but does bind to 5-HT₂B and sigma-2 (sigma₂) receptors (K_i= 1.6 nM for both) in a panel of 42 neurotransmitter receptors and transporters. Donecopride induces release of soluble amyloid precursor protein-α (sAPP-α) in COS-7 cells transiently expressing 5-HT₄ with an EC₅₀ value of 11.3 nM. Oral administration of donecopride (1 mg/kg) reduces brain soluble and insoluble amyloid-β (1-42) levels and increases the time spent exploring the novel object in the novel object recognition (NOR) test in the 5XFAD transgenic mouse model of Alzheimer's disease. Donecopride (3mg/kg, p.o.) prevents a reduction in spontaneous alternation behavior induced by intracerebroventricular administration of soluble Aβ₄₂ (sAβ₄₂) in the Y-maze in mice.²

References

1. A. Nasir, et al. Characterisation and Anti-diabetic Activity of Phenylquinoline, and Narceine Isolated from Ficus polita Leaf. Annual Research & Review in Biology, Page 102-114.
2. Patricia López, et al. Straightforward analytical method to determine opium alkaloids in poppy seeds and bakery products. Food Chem. 2018 Mar 1;242:443-450.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/donecopride-fumarate-hydrate/227184>