

Product Data Sheet

Product Name: Octopamine-d 3

Cat. No.: GC83750

Chemical Properties

Cas. No. 111988-19-3

Formula $C_8H_8D_3NO_2$

M.Wt 156.2

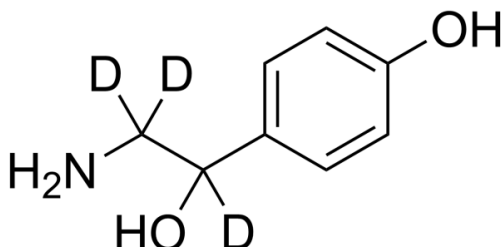
Solubility H_2O : 0.00085 mg/mL (0.01 mM;
Need ultrasonic and warming)

Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

Octopamine -d3 ((±)-p-Octopamine-d3) is the deuterated-labeled Octopamine. Octopamine ((±)-p-Octopamine) is an orally active neurotransmitter and neuromodulator that can cross the blood-brain barrier. Octopamine activates octopamine receptors (octopamine receptor), G protein-coupled/ $G_{\alpha s}$ -coupled receptors (G protein-coupled/ $G_{\alpha s}$ -coupled receptor), adenylyl cyclase (adenylyl cyclase)/ cAMP, calcium, and hyperpolarizing conductance increases. Octopamine can be used in research on various neurological diseases, metabolic diseases, and cardiovascular and cerebrovascular diseases [1] [2] [3] [4].

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

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References:

- [1]. Axelrod J, et al. Octopamine. Nature. 1977 Feb 10;265(5594):501-4.
- [2]. Kaya-Zeeb S, et al. Octopamine drives honeybee thermogenesis. eLife. 2022 Mar 15;11:e74334.
- [3]. Farooqui T, et al. Octopamine-mediated neuromodulation of insect senses. Neurochemical research. 2007 Sep;32(9):1511-29.
- [4]. Selcho M, et al. Linking physiological processes and feeding behaviors by octopamine. Current opinion in insect science. 2019 Dec;36:125-130.

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