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**Product Data Sheet**

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Product Name: 3-Methoxytyramine-d4 hydrochloride

Cat. No.: GC68324

**Chemical Properties**

Cas. No. 1216788-76-9

Formula C<sub>9</sub>H<sub>10</sub>D<sub>4</sub>ClNO<sub>2</sub>

M.Wt 207.69

Solubility DMSO : ≥ 100 mg/mL (481.49 mM); DMSO : 50 mg/mL  
(240.74 mM; Need ultrasonic)Store  
Storage 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**

3-Methoxytyramine-d4 (3-O-methyl Dopamine-d4) hydrochloride is the deuterium labeled 3-Methoxytyramine hydrochloride. 3-Methoxytyramine hydrochloride is an inactive metabolite of dopamine which can activate **trace amine associated receptor 1 (TAAR1)**<sup>[1][2]</sup>.

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs<sup>[1]</sup>.

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

[2]. Sotnikova TD, et al. The dopamine metabolite 3-methoxytyramine is a neuromodulator. *PLoS One.* 2010 Oct 18;5(10):e13452.

[3]. Gulberg HC, et al. Some observations on the estimation of 3-methoxytyramine in brain tissue. *Br J Pharmacol.* 1971 Aug;42(4):505-11.

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

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