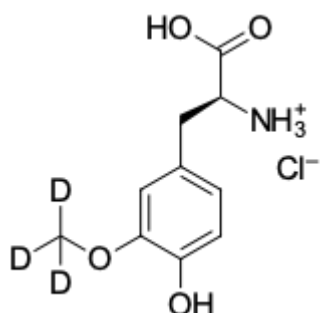


### 3-O-Methyldopa-d3 (3-OMD-d3)

<http://www.lumiprobe.com/p/3-o-methyldopa-omd-d3>

3-O-Methyldopa-d3 (3-OMD isotopic standart), 3-Methoxy-L-tyrosine, is a metabolite of L-dioxyphenylalanine (DOPA, L-DOPA, the drug levadopa), which is formed by the action of catechol-O-methyltransferase (COMT). 3-Methoxy-L-tyrosine competitively inhibits the pharmacodynamics of L-DOPA and dopamine. 3-Methoxy-L-tyrosine is an important marker for screening Parkinson's disease patients taking the drug levadopa. 3-Methoxy-L-tyrosine is also a major biochemical marker of aromatic L-amino acid decarboxylase deficiency (AADC, EC 4.1.1.28), an inborn error of metabolism that affects serotonin and dopamine biosynthesis.



**Structure of 3-O-Methyldopa-d3 (3-OMD-d3)**

#### General properties

Appearance: white powder

Molecular weight: 250.69

CAS number: 586954-09-8

Molecular formula:  $C_{10}H_{11}D_3ClNO_4$

Solubility: water

Quality control: NMR  $^1H$  and HPLC-MS (95+ %, D: 98+ %)

Storage conditions: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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