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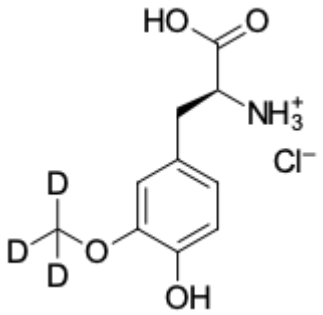
3-O-Methyldopa-d3 (3-OMD-d3)

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 receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.