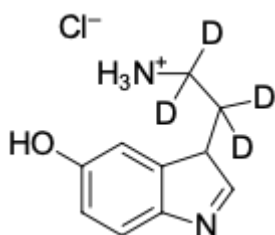


Serotonin-d4

<http://www.lumiprobe.com/p/serotonin-d4-hydrochloride-2469263-61-2>

Serotonin, or 5-hydroxytryptamine (5-HT), is a neurotransmitter with an integral physiological role in the human body; it regulates various activities, including behavior, mood, memory, and gastrointestinal homeostasis. Serotonin is synthesized in the raphe nuclei of the brainstem and the enterochromaffin cells of the intestinal mucosa. Serotonin is a primary treatment target for many psychiatric and neurological disorders associated with decreased CNS and plasma serotonin concentration, such as major depressive disorder, post-traumatic stress disorder, obsessive-compulsive disorder, and anxiety disorders. Serotonin plays a significant role in the pharmacodynamic activities of antidepressants, such as SSRIs (Selective serotonin reuptake inhibitor) and SNRIs (Serotonin-norepinephrine reuptake inhibitor). Plasma serotonin levels are associated with antidepressant response to SSRIs. Plasma serotonin increased in hepatocellular carcinoma (HCC) patients.



Structure of Serotonin-d4

General properties

Appearance: gray powder

Molecular weight: 216.70

CAS number: 2469263-61-2

Molecular formula: C₁₀H₉D₄ClN₂O

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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