

Dopamine transporter

The [dopamine transporter](#) is a [protein](#) that is responsible for regulating the concentration of the neurotransmitter dopamine in the brain by reuptaking it into [presynaptic neurons](#). It is a [transmembrane protein](#) that spans the [cell membrane](#) of dopamine-producing neurons and functions by removing dopamine from the synaptic cleft after it has been released from the presynaptic terminal.

The dopamine transporter plays a crucial role in the regulation of dopamine [signaling](#) in the brain and is a target for drugs used in the treatment of neurological and psychiatric disorders such as [attention deficit hyperactivity disorder](#) (ADHD) and [Parkinson's disease](#). Drugs such as [amphetamines](#) and [cocaine](#) also act on the dopamine transporter, leading to an increase in dopamine levels in the synaptic cleft and producing their characteristic psychoactive effects.

[Striatal dopamine transporter](#)

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