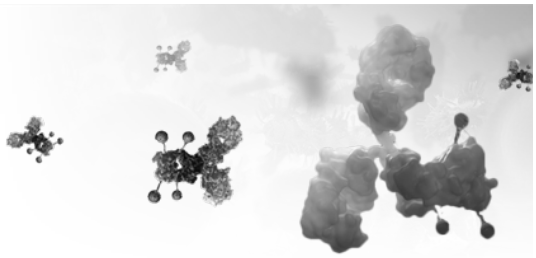

Human COMT blocking peptide (CDBP0851)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-COMT (N Terminus) antibody
Antigen Description	Catechol-O-methyltransferase catalyzes the transfer of a methyl group from S-adenosylmethionine to catecholamines, including the neurotransmitters dopamine, epinephrine, and norepinephrine. This O-methylation results in one of the major degradative pathways of the catecholamine transmitters. In addition to its role in the metabolism of endogenous substances, COMT is important in the metabolism of catechol drugs used in the treatment of hypertension, asthma, and Parkinson disease. COMT is found in two forms in tissues, a soluble form (S-COMT) and a membrane-bound form (MB-COMT). The differences between S-COMT and MB-COMT reside within the N-termini. Several transcript variants are formed through the use of alternative translation initiation sites and promoters.
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	COMT catechol-O-methyltransferase [Homo sapiens]
Official Symbol	COMT

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Synonyms	COMT; catechol-O-methyltransferase; catechol O-methyltransferase;
Entrez Gene ID	1312
mRNA Refseq	NM_000754
Protein Refseq	NP_000745
UniProt ID	P21964
Chromosome Location	22q11.21
Pathway	Biogenic Amine Synthesis, organism-specific biosystem; Biological oxidations, organism-specific biosystem; Dopamine clearance from the synaptic cleft, organism-specific biosystem; Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem; Enzymatic degradation of Dopamine by monoamine oxidase, organism-specific biosystem; Enzymatic degradation of dopamine by COMT, organism-specific biosystem;
Function	O-methyltransferase activity; catechol O-methyltransferase activity; magnesium ion binding; transferase activity;

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