

## COMT Human

**Description:** COMT Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 221 amino acids (51-271 a.a.) & having a molecular mass of 24.4 kDa. The COMT is purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-407

For research use only.

**Synonyms:** COMT, EC 2.1.1.6, Catechol O-methyltransferase.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

**Amino Acid Sequence:** MGDTKEQRIL NHVLQHAEPG NAQSVLEAID TYCEQKEWAM  
NVGDKKGKIV DAVIQEHQPS VLLELGAYCG YSAVRMARLL SPGARLITIE INPDCAAITQ  
RMVDFAGVKD KVTLLVVGASQ DIIPQLKKKY DVDTLDMVFL DHWKDRYLPD TLLLEECGLL  
RKGTVLLADN VICPGAPDFL AHVRGSSCFE CTHYQSFLEY REVVDGLEKA IYKGPGSEAG P.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

COMT protein in 20mM Tris-HCl buffer, pH-8, 1mM MgCl<sub>2</sub> and 10% Glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

COMT catalyzes the transfer of a methyl group from S-adenosylmethionine (SAM) to catechol substrates such as the neurotransmitters dopamine, epinephrine, and norepinephrine. This O-methylation results in one of the main degradative pathways of the catecholamine transmitters. COMT is located in the postsynaptic neuron and is involved in the metabolism of catechol estrogen drugs used in the treatment of hypertension, asthma, Parkinson disease and the inactivation of catecholamine neurotransmitters through enzymatic degradation. COMT appears in tissues in 2 forms, a soluble form and a membrane-bound form which differ in their N-termini. COMT inhibitors prevent levodopa degradation, increase its availability and are used in the treatment of patients with Parkinson's disease.

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