

**COMT, 51-271 aa, Human, Recombinant, E.coli**

**Cat.NO.: TP01685**

3th Edition

**Synonyms:**Catechol-O-methyltransferase

**Description:**Catechol-O-methyltransferase (COMT) is an enzyme that catalyses the transfer of the methyl group of Sadenosylmethionine (SAM) into catechol substrates such as levodopa, dopamine, epinephrine, and norepinephrine in the presence of Mg<sup>2+</sup>. COMT appears to be located in the postsynaptic neuron and plays roles in the metabolism of catechol estrogens and the inactivation of catecholamine neurotransmitters through enzymatic degradation.

**Form:**Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM MgCl<sub>2</sub> 10% glycerol

**Molecular Weight:**24.4 kDa (221 aa), confirmed by MALDI-TOF

**Sequences:**

MGDTKEQRILNHVLQHAEPGNAQSVLEAIDTYCEQKEWAMNVGDKKGGKIVDAVIQEHQPSVLLELGAYCGYS AVR  
MARLLSPGARLITIEINPDCAAITQRMVDFAGVKDKVTLVVGASQDIIPQLKKKYDVDTLDMVFLDHWKDRYLPDTLL  
LEECGLLRKGTVLLADNVICPGAPDFLAHVRGSSCFECTHYQSFLEYREVVDGLEKAIYKGPGEAGP

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.