

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 Mg²⁺. 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 MgCl₂ 10% glycerol

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

Sequences:

MGDTKEQRILNHVLQHAEPGNAQSVLEAIDTYCEQKEWAMNVGDKKGGKIVDAVIQEHQPSVLELGAYCGYSAVR
MARLLSPGARLITIEINPDCAAITQRMVDFAGVKDKVTLVVGASQDIIPQLKKKYDVTLDMVFLDHWKDRYLPDILL
LEECGLLRKGTVLLADNVICPGAPDFLAHVVRGSSCFECTHYQSFLEYREVVDGLEKAIYKGGPGSEAGP

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.