

# Recombinant Full Length Human COMT Protein, GST-tagged

**Cat. No.** COMT-1948HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human COMT full-length ORF ( AAH00419.2, 1 a.a. - 182 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	182 amino acids
<b>Description</b>	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. [provided by RefSeq, Sep 2008]
<b>Molecular Mass</b>	45.76 kDa
<b>AA Sequence</b>	MNVGDKKGGKIVDAVIQEHQPSVLLLELGAYCGYS AVR MARLLSPGARLITIEINPDCAAI TQRMVDFAGMKDKVTLVVGASQDIIPQLKKKYD VDTLDMVFLDHWKDRYLPDTLLLE

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ECGLLRKGTVLLADNVICPGAPDFLAHVIRGSSCFECTHYQSFLFYREVVDGLEKAIY  
KGGPSEAGP

**Applications**  
Enzyme-linked Immunoabsorbent Assay  
Western Blot (Recombinant protein)  
Antibody Production  
Protein Array

**Notes**  
Best use within three months from the date of receipt of this protein.

**Storage**  
Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**  
50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** [COMT catechol-O-methyltransferase \[ Homo sapiens \]](#)

**Official Symbol** [COMT](#)

**Synonyms** COMT; catechol-O-methyltransferase; catechol O-methyltransferase

**Gene ID** [1312](#)

**mRNA Refseq** [NM\\_000754](#)

**Protein Refseq** [NP\\_000745](#)

**MIM** [116790](#)

**UniProt ID** [P21964](#)

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