Catechol O-Methyltransferase (COMT) Pig Recombinant Protein

PRODUCT OVERVIEW

Product Name	Catechol O-methyltransferase (COMT), Recombinant Protein
Full Product Name	Recombinant Pig Catechol O-methyltransferase (COMT)
Product Gene Name	COMT recombinant protein
Product Synonym Gene Name	COMT
Sequence	KERAMHVGRK KGQIVDTVVQ EQRPSVLLEL GAYCGYSAVR MARLLLPSAR LLTIELNPDN AAIAQQVVDF AGLQDRVTVV VGASQDIIPQ LKKKYDVDTL DMVFLDHWKD RYLPDTLLLE ECGLLRKGTV LLADNVICPG APDFLAHVRG CGRFECTHFS SYLEYSQMVD GLEKAVYKGP GSPAQP
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	20,587 Da
Sequence Positions	1-186, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q99028
Species	Sus scrofa (Pig)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for COMT recombinant protein	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.
Other Notes	Small volumes of COMT recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for COMT purchase	MBS1374678 is a recombinant protein targeting COMT. Also known as Recombinant Pig Catechol O-methyltransferase (COMT). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COMT. It may not necessarily be applicable to this product.

NCBI GI #	544074

NCBI GeneID	100155530
NCBI Accession #	Q99028.1
UniProt Primary Accession #	Q99028
UniProt Related Accession #	Q99028
NCBI Official Full Name	Catechol O-methyltransferase
NCBI Official Symbol	COMT
UniProt Protein Name	Catechol O-methyltransferase
Protein Family	Catechol O-methyltransferase
UniProt Gene Name	COMT
NCBI Protein Information	catechol O-methyltransferase
UniProt Comments for COMT	Catalyzes the O-methylation, and thereby the inactivation, of catecholamine neurotransmitters and catechol hormones. Also shortens the biological half-lives of certain neuroactive drugs, like L-DOPA, alpha-methyl DOPA and isoproterenol.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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