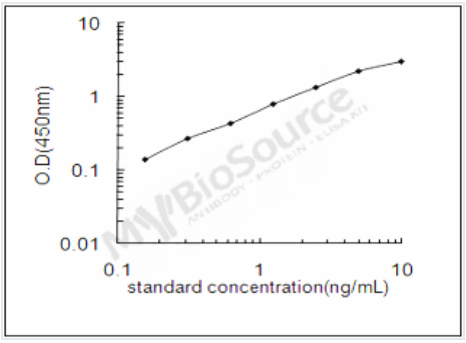
Catechol O-Methyltransferase (COMT) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Catechol O-methyltransferase (Comt), ELISA Kit
Full Product Name	Mouse Catechol O-methyltransferase ELISA Kit
Product Gene Name	Comt elisa kit
Product Synonym Names	Catechol O-methyltransferase; Comt; Comt1; 2.1.1.6
Species Reactivity	Mouse
Assay Type	Sandwich
Detection Range	0.156-10 ng/mL
Sensitivity	0.078 ng/mL
Preparation and Storage	For long term storage, please store the entire kit at -20 degree C.
Molecular Weight	24,707 Da
3D Structure	ModBase 3D Structure for O88587
Intra-Assay CV	<=5.5%
Inter-Assay CV	<=8.2%
Recovery	99%
Related Product Information for Comt elisa kit	MBS2885187 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Catechol O-methyltransferase (Comt) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing Comt. The ELISA analytical biochemical technique of the MBS2885187 kit is based on Comt antibody-Comt antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect Comt antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, Comt. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of Comt elisa kit 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.



Typical Testing Data/Standard Curve (for reference only) of Comt elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	161484636
NCBI GeneID	12846
NCBI Accession #	NP_001104532.1
UniProt Primary Accession #	O88587
UniProt Secondary Accession #	Q91XH4
UniProt Related Accession #	O88587
GenBank Nucleotide #	NM_001111062.1
NCBI Official Full Name	catechol O-methyltransferase
NCBI Official Synonym Full Names	catechol-O-methyltransferase
NCBI Official Symbol	Comt
NCBI Official Synonym Symbols	Comt1; D16Wsu103e; D330014B15Rik
UniProt Protein Name	Catechol O-methyltransferase
Protein Family	Catechol O-methyltransferase
UniProt Gene Name	Comt
UniProt Synonym Gene Names	Comt1
UniProt Entry Name	COMT_MOUSE
NCBI Protein Information	catechol O-methyltransferase
UniProt Comments for Comt	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. Belongs to the mammalian catechol-O-methyltransferase family. 2 isoforms of the human protein are produced by alternative initiation. Protein type: Methyltransferase; Amino Acid Metabolism - tyrosine; EC 2.1.1.6; Membrane protein, integral Cellular Component: axon; cytoplasm; cytosol; dendrite; dendritic spine; integral to membrane; membrane; mitochondrion; plasma membrane; postsynaptic membrane Molecular Function: catechol O-methyltransferase activity; magnesium ion binding; metal ion binding; methyltransferase activity; O-methyltransferase activity; transferase activity Biological Process: catechol metabolic process; catecholamine metabolic process; cellular response to phosphate starvation; dopamine catabolic process; dopamine metabolic process; estrogen metabolic process; female pregnancy; learning; methylation; negative regulation of dopamine metabolic process; negative regulation of smooth muscle cell proliferation; neurotransmitter catabolic process; positive regulation of homocysteine metabolic process; regulation of sensory perception of pain; reproductive process in a multicellular organism; response to pain; short-term memory
Research Articles on Comt	**1.** COMT expression in the hippocampus was significantly reduced by high E2 replacement, implying increased catecholamine levels in the hippocampus of high E2 mice.
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.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/comt-mouse-elisa-kits/catechol-o-methyltransferase/2885187