Recombinant Mouse Comt Protein, His-tagged

Cat. No. Comt-828M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Comt Protein (Arg20-Ser265) with His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Arg20-Ser265
Description	Enables catechol O-methyltransferase activity. Acts upstream of or within cellular response to phosphate starvation and dopamine catabolic process. Located in mitochondrion. Is expressed in several structures, including alimentary system; cardiovascular system; central nervous system; genitourinary system; and sensory organ. Used to study cognitive disorder and pre-eclampsia. Human ortholog(s) of this gene implicated in several diseases, including attention deficit hyperactivity disorder; autoimmune disease of skin and connective tissue (multiple); bulimia nervosa; cognitive disorder (multiple); and reproductive organ cancer (multiple). Orthologous to human COMT (catechol-O-methyltransferase).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 31.2 kDa; Accurate Molecular Mass: 29 kDa
Purity	> 95%

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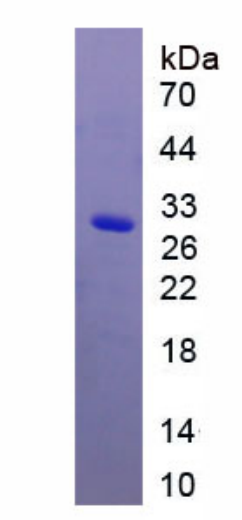
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Comt catechol-O-methyltransferase [Mus musculus (house mouse)]
Official Symbol	Comt
Synonyms	COMT; catechol-O-methyltransferase; catechol O-methyltransferase; catechol-O-methyltransferase 1; Comt1; D16Wsu103e; D330014B15Rik;
Gene ID	12846
mRNA Refseq	NM_001111062
Protein Refseq	NP_001104532

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UniProt ID	O88587



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