

## Human COMT Knockdown Cell Lysate

Cat. No. COMT-121HKCL Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	WB-validated COMT Knockdown HeLa Cell Lysate
<b>Species</b>	Human
<b>Source</b>	HeLa
<b>Description</b>	<p>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.</p>
<b>Form</b>	Cell-Tissue Lysis buffer
<b>Molecular Mass</b>	30 kDa
<b>Notes</b>	<p>Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.</p>

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<b>Storage</b>	Store at -20 centigrade for two years.
<b>Concentration</b>	Lot-specific
<b>Shipping</b>	Blue Ice
<b>Components</b>	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg COMT KD HeLa cell lysate
<b>Protein Families</b>	Druggable Genome, Transmembrane
<b>Protein Pathways</b>	Metabolic pathways, Tyrosine metabolism
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)

## GENE INFORMATION

<b>Gene Name</b>	COMT catechol-O-methyltransferase [ Homo sapiens (human) ]
<b>Official Symbol</b>	COMT
<b>Synonyms</b>	COMT; catechol-O-methyltransferase; catechol O-methyltransferase;
<b>Gene ID</b>	1312
<b>mRNA Refseq</b>	NM_000754
<b>Protein Refseq</b>	NP_000745
<b>MIM</b>	116790
<b>UniProt ID</b>	P21964

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