

## Product datasheet for TP506244

### Cth (NM\_145953) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse cystathionase (cystathionine gamma-lyase) (Cth), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR206244 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MQKDASLSGFLPSFQHFATQAIHVGQEPEQWNSRAWLPISSLATTFKQDFPGQSSGFEYSRSGNPTRNCL  
EKAVAALDGAHSLAFASGLAATITITHLLKAGDEIICMDEVYGGTNRVFRVASEFGLKISFVDCSKTK  
LLEAAITPQTKLVWIETPTNPTLKLADIGACAQIVHKRGDIILVDNTFMMSAYFQRPLALGADICMCSAT  
KYMNGHSDVVMGLSVNSDDLNSRLRFLQNSLGAVPSPFCYLCRGLKTLQVRMEKHFKNMVAVARFLE  
TNPRVEKVVYPGLPSHPQHELAKRQCSCGCPGMVSFYIKGALQHAKAFLKNLKLFTLAESLGGYESLAELP  
AIMTHASVPEKDRATLGINDTLIRLSVGLLEDEQDLLEDLDRALKAHP

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-MYC/DDK
Predicted MW:	43.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_666065</a>
Locus ID:	107869
UniProt ID:	<a href="#">Q8VCN5</a>



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RefSeq Size: 1815

Cytogenetics: 3 H4

RefSeq ORF: 1197

Synonyms: 0610010I13Rik; AI314617; BC019483; CSE; Cys3

**Summary:** Catalyzes the last step in the trans-sulfuration pathway from methionine to cysteine. Has broad substrate specificity. Converts cystathionine to cysteine, ammonia and 2-oxobutanoate. Converts two cysteine molecules to lanthionine and hydrogen sulfide. Can also accept homocysteine as substrate. Specificity depends on the levels of the endogenous substrates. Generates the endogenous signaling molecule hydrogen sulfide (H<sub>2</sub>S), and so contributes to the regulation of blood pressure. Acts as a cysteine-protein sulfhydrase by mediating sulfhydration of target proteins: sulfhydration consists of converting -SH groups into -SSH on specific cysteine residues of target proteins such as GAPDH, PTPN1 and NF-kappa-B subunit RELA, thereby regulating their function.[UniProtKB/Swiss-Prot Function]