

Recombinant Human CBS, His-tagged

Cat. No. CBS-10765H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CBS protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	206-551a.a.
Description	The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 2. Multiple heterogeneous transcriptional start sites in the 5' UTR have been reported. Two transcript variants encoding different isoforms have been found for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

GENE INFORMATION

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Gene Name	CBS cystathionine-beta-synthase [Homo sapiens]
Official Symbol	CBS
Synonyms	CBS; cystathionine-beta-synthase; cystathionine beta-synthase; HIP4; beta-thionase; serine sulfhydrase; methylcysteine synthase;
Gene ID	875
mRNA Refseq	NM_000071
Protein Refseq	NP_000062
MIM	613381
UniProt ID	P35520
Chromosome Location	21q22.3
Pathway	Cysteine and methionine metabolism, organism-specific biosystem; Cysteine and methionine metabolism, conserved biosystem; Cysteine biosynthesis, homocysteine + serine => cysteine, organism-specific biosystem; Cysteine biosynthesis, homocysteine + serine => cysteine, conserved biosystem; Cysteine formation from homocysteine, organism-specific biosystem;
Function	cystathionine beta-synthase activity; cystathionine beta-synthase activity; enzyme binding; heme binding; heme binding; lyase activity; metal ion binding; modified amino acid binding; protein binding; protein homodimerization activity; pyridoxal phosphate

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