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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

CBS (Human) Recombinant Protein (P01)

Catalog Number: H00000875-P01

Regulation Status: For research use only (RUO)

Product Description: Human CBS full-length ORF (AAH11381.1, 1 a.a. - 551 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MPSETPQAEVGP TGCPHRSGPHSAKGSLEKGSPE DK
EAKEPLWIRPDAPSRCTWQLGRPAESP HHHTAPAKS
PKILPDILKKIGDTPMVRINKIGKKFGLKCELLAKCEFFN
AGGSVKDRISLRMIEDAERDGLKPGDTII EPTSGNTGI
GLALAAAVRGYRCIIVMPEKMSSEKVDVLRALGAEIVR
TPTNARFDSPE SHVGVAVWRLKNEIPNSHILDQYRNAS
NPLAHYDTTADEILQQCDGKLDMLVASVGTGGTITGIA
RKLKEKCPGCR IIGVDPEGSILAEPEELNQTEQTTYEV
EGIGYDFIPTVLDRTVV DDKWFKSNDEEAFTFARMLIAQ
EGLLCGGSAGSTVAVAVKAAQELQEGQRCVVILPDSV
RNYMTKFLSDRWMLQKGLKEEDLTEKPPWWWHLR
VQELGLSAPLTVLPTITCGHTIEILREKGFDPV VDEA
GVILGMVTLGNMLSSLLAGKVQPSDQVGKVIYKQFKQI
RLTDTLGR LSHILEMDHFALVVHEQIQYHSTGKSSQRQ
MVFGVVTAIDLLNFVAAQERDQK

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 86.35

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid

repeated freezing and thawing.

Entrez GeneID: 875

Gene Symbol: CBS

Gene Alias: HIP4

Gene Summary: The protein encoded by this gene acts as a homotetramer to catalyze the conversion of homocysteine to cystathionine, the first step in the transsulfuration pathway. The encoded protein is allosterically activated by adenosyl-methionine and uses pyridoxal phosphate as a cofactor. Defects in this gene can cause cystathionine beta-synthase deficiency (CBS), which can lead to homocystinuria. [provided by RefSeq]

References:

1. Endogenously produced hydrogen sulfide is involved in porcine oocyte maturation in vitro. Nevorál J, Zalmanová T, Zamoštná K, Kott T, Kucerová-Chrpová V, Bodart JF, Gelaude A, Procházka R, Orsák M, Sulc M, Klein P, Dvoráková M, Weingartová I, Vighová A, Hosková K, Krejčová T, Jilek F, Petr J. Nitric Oxide. 2015 Oct 9;51:24-35.
2. HYDROGEN SULFIDE (H₂S) AUGMENTS SYNAPTIC NEUROTRANSMISSION IN THE NUCLEUS OF THE SOLITARY TRACT (NTS). Austgen JR, Hermann GE, Dantzer HA, Rogers RC, Kline DD. J Neurophysiol. 2011 Jul 6. [Epub ahead of print]
3. The Effect of Hydrogen Sulfide Donors on Lipopolysaccharide-Induced Formation of Inflammatory Mediators in Macrophages. Whiteman M, Li L, Rose P, Tan CH, Parkinson DB, Moore PK. Antioxid Redox Signal. 2010 Feb 3. [Epub ahead of print]