

Recombinant Human Cystathionine beta-synthase(CBS)

Catalog No: #AP70123

Package Size: #AP70123-1 20ug #AP70123-2 100ug #AP70123-3 1mg

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Description

Product Name	Recombinant Human Cystathionine beta-synthase(CBS)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-551aaSequence Info:Full Length
Other Names	Beta-thionase;Serine sulfhydrase
Accession No.	P35520
Calculated MW	64.5 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	PSETPQAEVGPTGCPHRSGPHSAKGSLEKGSPEDKEAKEPLWIRPDAPSRCTWQLGRPAESP HHHTAPAK SPKILPDILKKIGDTPMVRINKIGKKFGLKCELLAKCEFFNAGGSVKDRISLRMIEDAERDGTLPKPGDTIIEPTSGN TGIGLALAAAVRGYRCIIVMPEKMSSEKVDVLRALGAEIVRTPTNARFDSPESHVGVAVRLKNEIPNSHILDQY RNASNPLAHYDTTADEILQQCDGKLDMLVASVGTGGTITGIARKLKEKCPGCRIGVDPEGSILAEPEELNQTE QTTYEVEGIGYDFIPTVLDRTVVDKWFKSNDEEAFTFARMLIAQEGLLCGGSAGSTVAVAVKAAQELQEGQRC VVILPDSVRNYMTKFLSDRWMLQKGFLKEEDLTEKKPWWWHLRVQELGLSAPLTVLPTITCGHTIEILREKGF QAPVVDEAGVILGMVTLGNMLSSLLAGKVQPSDQVGKVIYKQFKQIRLTDLTGRLSHILEMDHFALVVHEQIQY HSTGKSSQRQMVFGVVTAILLNFVAAQERDQK
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Only known pyridoxal phosphate-dependent enzyme that contains he. Important regulator of hydrogen sulfide, especially in the brain, utilizing cysteine instead of serine to catalyze the formation of hydrogen sulfide. Hydrogen sulfide is a gastratransmitter with signaling and cytoprotective effects such as acting as a neuromodulator in the brain to protect neurons against hypoxic injury .

References

Human cystathionine beta-synthase cDNA sequence, alternative splicing and expression in cultured cells.Kraus J.P., Le K., Swaroop M., Ohura T., Tahara T., Rosenberg L.E., Roper M.D., Kozich V.Hum. Mol. Genet. 2:1633-1638(1993)Research Topic:Metabolism

Note: This product is for in vitro research use only and is not intended for use in humans or animals.