CTSB (Human) Recombinant Protein

Catalog # P7514 Size 10 ug

Specification

Product Description	Human CTSB (P07858, 18 a.a. - 339 a.a.) partial recombinant protein with His tag at C-teminus expressed in CHO cell.
Sequence	RSRPSFHPLSDELVNYVNKRNTTWQAGHNFYNVDMSYLKRLCGTFLGGPKPPQRVMFTEDLKLP ASFDAREQWPQCPTIKEIRDQGSCGSCWAFGAVEAISDRICIHTNAHVSVEVSAEDLLTCCGSMC GDGCNGGYPAEAWNFWTRKGLVSGGLYESHVGCRPYSIPPCEHHVNGSRPPCTGEGDTPKCS KICEPGYSPTYKQDKHYGYNSYSVSNSEKDIMAEIYKNGPVEGAFSVYSDFLLYKSGVYQHVTGEM MGGHAIRILGWGVENGTPYWLVANSWNTDWGDNGFFKILRGQDHCGIESEVVAGIPRTDQYWEKI
Host	Mammals
Theoretical MW (kDa)	43
Form	Liquid
Preparation Method	Mammalian cell (CHO) expression system
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 0.2 EU per 1 ug of protein (determined by gel clotting method)
Storage Buffer	In 25 mM Tris-HCl buffer, 150 mM NaCl, pH 8.0 (20% glycerol)
Storage Instruction	Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — CTSB

Entrez GeneID	1508
Protein Accession#	P07858
Gene Name	CTSB
Gene Alias	APPS, CPSB
Gene Description	cathepsin B
Omim ID	116810
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a lysosomal cysteine proteinase composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. It is also known as amyloid precursor protein secretase and is involved in the proteolytic processing of amyloid precursor protein (APP). Incomplete proteolytic processing of APP has been suggested to be a causative factor in Alzheimer disease, the most common cause of dementia. Overexpression of the encoded protein, which is a member of the peptidase C1 family, has been associated with esophageal adenocarcinoma and other tumors. At least five transcript variants encoding the same protein have been found for this gene. [provided by RefSeq
Other Designations	APP secretase|OTTHUMP00000116009|amyloid precursor protein secretase|cathepsin B1|cysteine protease|preprocathepsin B

Pathway

- Antigen processing and presentation
- Lysosome

Disease

- Adenocarcinoma
- Calcinosis
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease

- Kidney Failure
- Pancreatitis
- Prostatic Neoplasms
- Urinary Bladder Neoplasms