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Datasheet for ABIN2468308 CPB1 Protein

Overview

Quantity:	0.005 mg
Target:	CPB1
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	ASGHSYTKYN NWETIEAWIQ QVATDNPDLV TQSVIGTTFE GRNMYVLKIG KTRPNKPAIF IDCGFHAREW ISPAFCQWFV REAVRTYNQE IHMKQLLDEL DFYVLPVUNI DGYVYTWTKD RMWRKTRSTM AGSSCLGVDP NRNFNAGWCE VGASRSPCSE TYCGPAPESE KETKALADFI RNNLSTIKAY LTIHSYSQMM LYPYSYDYKL PENYEELNAL VKGAAKELAT LHGTKYTYGP GATTIYPAAG GSDDWSYDQG IKYSFTFELR DTGFFGFLLP ESQIRQTCEE TMLAVKYIAN YVREHLY
Characteristics:	Carboxypeptidase-B sequentially cleaves C terminal K and R residues.
Purity:	< 95 % by SDS-PAGE gel and HPLC analyses.
Endotoxin Level:	Endotoxin level is less than 0.1 ng per µg of Carboxypeptidase-B (1 EU/µg).

Target Details

Target:	CPB1
Alternative Name:	Carboxypeptidase-B (CPB1 Products)

Target Details

Background:	Proteases (also called Proteolytic Enzymes, Peptidases, or Proteinases) are enzymes that hydrolyze the amide bonds within proteins or peptides. Most proteases act in a specific manner, hydrolyzing bonds at or adjacent to specific residues or a specific sequence of residues contained within the substrate protein or peptide. Proteases play an important role in most diseases and biological processes including prenatal and postnatal development, reproduction, signal transduction, the immune response, various autoimmune and degenerative diseases, and cancer. They are also an important research tool, frequently used in the analysis and production of proteins. Carboxypeptidase-B sequentially cleaves C terminal K and R residues. Recombinant rat Carboxypeptidase-B is a 35.1 kDa protein consisting of 307 amino acids.
Gene ID:	24271
NCBI Accession:	NP_036665
OMIM:	6978697
UniProt:	P19223

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Handling Advice:	As with any protein, exposing Carboxypeptidase-B recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.
Storage:	-20 °C
Storage Comment:	The recombinant protein is stable for at least 2 years from date of receipt at -20 °C. Reconstituted Carboxypeptidase-B stable for at least 3 months when stored in working aliquots with a carrier protein at -20 °C.
Expiry Date:	24 months