

Recombinant Human CAST

Cat. No. CAST-27210TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 582-669 of Human Calpastatin with an N terminal proprietary tag; Predicted MWt 35.31 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	88 amino acids
Description	The protein encoded by this gene is an endogenous calpain (calcium-dependent cysteine protease) inhibitor. It consists of an N-terminal domain L and four repetitive calpain-inhibition domains (domains 1-4), and it is involved in the proteolysis of amyloid precursor protein. The calpain/calpastatin system is involved in numerous membrane fusion events, such as neural vesicle exocytosis and platelet and red-cell aggregation. The encoded protein is also thought to affect the expression levels of genes encoding structural or regulatory proteins. Alternatively spliced transcript variants encoding different isoforms have been described.
Molecular Weight	35.310kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	QPDPDENKPMEDKVKEKAKAEHRDKLGERDDTIPPEYRHLLDDNGQDKPVKPPTKK SEDSKKPADDQDPIDALSGDLDCPSTTETSQ
Sequence Similarities	Belongs to the protease inhibitor I27 (calpastatin) family.
GENE INFORMATION	
Gene Name	CAST calpastatin [Homo sapiens]
Official Symbol	CAST
Synonyms	CAST; calpastatin;
Gene ID	831
mRNA Refseq	NM_001042440
Protein Refseq	NP_001035905
MIM	114090
Uniprot ID	P20810
Chromosome Location	5q14-q22
Function	calcium-dependent cysteine-type endopeptidase inhibitor activity; endopeptidase inhibitor activity; protein binding;

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