9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

CAPNS1 Human

Calpain, Small Subunit 1 Human Recombinant
RCP0334

Product Overview

Name	CAPNS1 Human
Description	
Calpain, Small Subunit 1 Human Recombinant	
Accession (Primary)	P04632
Synonyms	
Calpain Small Subunit 1, CAPN4, Calcium-Activated Neutral Proteinase Small Subunit, Calcium-Dependent Protease Small Subunit 1, Calpain Regulatory Subunit, CANP Small Subunit, CDPS, CSS1, Calcium-Dependent Protease Small Subunit, Calcium-Dependent Protease Small Subunit, Calpain 4 Small Subunit (30K), Calpain Small Polypeptide, Calpain Small Subunit 1, CALPAIN4, CANPS, CAPNS, CANP, CAPNS1.	
Introduction	
Calpain, Small Subunit 1 (CAPNS1) belongs to the calpain small subunit family. Calpains are a ubiquitous, well-conserved family of calcium-dependent, cysteine proteases, widely distributed in mammalian cells. Calpain families are implicated in neurodegenerative processes, considering that their activation can be triggered by calcium influx and oxidative stress. Calpains function as heterodimers, comprising a specific large catalytic subunit (calpain 1 subunit in Calpain I, and calpain 2 subunit in Calpain II), and a common small regulatory subunit encoded by the CAPNS1 gene. The CAPNS1 protein is vital for the stability and function of both calpain heterodimers, whose proteolytic activities influence numerous cellular functions including apoptosis, proliferation, migration, adhesion, and autophagy.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
The CAPNS1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	

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Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS RTHYSNI EANESEEVRQ FRRLFAQLAG DDMEVSATEL MNILNKVVTR HPDLKTDGFG IDTCRSMVAV MDSDTTGKLG FEEFKYLWNN IKRWQAIYKQ FDTDRSGTIC SSELPGAFEA AGFHLNEHLY NMIIRRYSDE SGNMDFDNFI SCLVRLDAMF RAFKSLDKDG TGQIQVNIQE WLQLTMYS.

Precautions

CAPNS1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P04632)