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32-3415: CAPNS1 Recombinant Protein

Alternative Name :	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 Pr

Description

Source : Escherichia Coli. CAPNS1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 208 amino acids (84-268) and having a molecular mass of 23.8 kDa.CAPNS1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	25 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	The CAPNS1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSRTHYSNI EANESEEVRQ FRRLFAQLAG DDMEVSATEL MNILNKVVTR HPDLKTDGFG IDTCRSMVAV MDSDTTGKLG FEEFKYLWNN IKRWQAIYKQ FDTDRSGTIC SSELPGAFEA AGFHLNEHLY NMIIRRYSDE SGNMDFDNFI SCLVRLDAMF RAFKSLDKDG TGQIQVNIQE WLQLTMYS.