

**CAPNS1, 84-268aa, Human, His tag, E.coli**

**Cat.NO.: TP01419**

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3th Edition

**Synonyms:** Calpain small subunit 1, Calpain, small subunit 1, 30K, CALPAIN4, CANP, CANPS, CAPN4, CDPS, CSS1

**Description:** Calpains are a ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. Calpain families have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. Calpain I and II are heterodimeric with distinct large subunits associated with common small subunits, all of which are encoded by different genes. Recombinant human CAPNS1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:** Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

**Molecular Weight:** 23.8kDa (208aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSRTHYSNIEANESEEVQRRLFAQLAGDDMEVSATELMNILNKVVTRHPDLK  
TDGFGIDTCRSMVAVMDSDTTGKLGFEFKYLWNNIKRWQAIYKQFDTRSGTICSELPGAFEAAAGFHLNEHLYN  
MIIRRYSDESGNMDFDNFISCLVRLDAMFRAFKSLDKDGTGQIQVNIQEWLQLTMYS

**Purity:** > 95% by HPLC

**Concentration:** 0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.