

Recombinant Human CAPN6, GST-tagged

Cat. No. CAPN6-10705H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CAPN6 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	67-360a.a.
Description	The protein encoded by this gene (p35) is a neuron-specific activator of cyclin-dependent kinase 5 (CDK5); the activation of CDK5 is required for proper development of the central nervous system. The p35 form of this protein is proteolytically cleaved by calpain, generating a p25 form. The cleavage of p35 into p25 results in relocalization of the protein from the cell periphery to nuclear and perinuclear regions. P25 deregulates CDK5 activity by prolonging its activation and changing its cellular location. The p25 form accumulates in the brain neurons of patients with Alzheimers disease. This accumulation correlates with an increase in CDK5 kinase activity, and may lead to aberrantly phosphorylated forms of the microtubule-associated protein tau, which contributes to Alzheimers disease.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name	CAPN6 calpain 6 [Homo sapiens]
Official Symbol	CAPN6
Synonyms	CALP M; Calpain-6; Calpain-like protease X-linked; Calpamodulin; CALPM; CAN6_HUMAN; CANP X; CANPX; CAPN 6; CAPN6
Gene ID	827
mRNA Refseq	NM_014289.3
Protein Refseq	NP_055104.2
MIM	300146
UniProt ID	Q9Y6Q1
Chromosome Location	Xq23
Pathway	Integrin-mediated cell adhesion, organism-specific biosystem
Function	calcium-dependent cysteine-type endopeptidase activity; microtubule binding;

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