

Recombinant Human CAPN10 Protein, His-tagged

Cat. No. CAPN10-361H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CAPN10 Protein (Thr322-Gln654) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Thr322-Gln654
Description	Calpains represent a ubiquitous, well-conserved family of calcium-dependent cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. The large catalytic subunit has four domains: domain I, the N-terminal regulatory domain that is processed upon calpain activation; domain II, the protease domain; domain III, a linker domain of unknown function; and domain IV, the calmodulin-like calcium-binding domain. This gene encodes a large subunit. It is an atypical calpain in that it lacks the calmodulin-like calcium-binding domain and instead has a divergent C-terminal domain. It is similar in organization to calpains 5 and 6. This gene is associated with type 2 or non-insulin-dependent diabetes mellitus (NIDDM), and is located within the NIDDM1 region. Multiple alternative transcript variants have been described for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 40.2 kDa Accurate Molecular Mass: 40 kDa

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CAPN10 calpain 10 [Homo sapiens (human)]
Official Symbol	CAPN10
Synonyms	CAPN10; calpain 10; calpain-10; calpain-like protease CAPN10; calcium-activated neutral proteinase 10; CANP10; NIDDM1
Gene ID	11132
mRNA Refseq	NM_023083
Protein Refseq	NP_075571

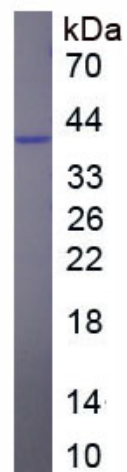
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MIM	605286
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UniProt ID	Q9HC96
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