

Active Recombinant Human CAPZA1/CAPZB Protein, His-tagged

Cat. No. CAPZA1&CAPZB-869H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CAPZA1&CAPZB(non-muscle isoform) with the alpha-1 SU untagged and beta-2 SU His-tagged was produced in HEK293 cells.
Species	Human
Source	HEK293
Description	The subunits of the heterodimeric capping protein CapZ possess a molecular mass of 34kDa (alpha 1-subunit) and 32kDa (beta 2-subunit, His-tagged). CapZ binds with high affinity in a Ca ⁺⁺ -independent manner to the barbed end of actin filaments (1:1000 M/M). Ca ⁺⁺ -insensitive barbed end capping protein. K _d actin binding = >1nM (barbed end) .
Form	150mM NaCl, 20mM Hepes pH 7.4, 1mM DTT and 5% sucrose, when reconstituted with 1.0ml ultrapure water to obtain a 1.0 mg/ml solution.
Bio-activity	Capping activity: F-actin containing 20% pyrene actin was incubated with CapZ and diluted below the critical concentration. Depolymerisation was followed by fluorometry and compared to an actin reference without CapZ. Complete capping was obtained at a molar ratio of 1 : 1000 (CapZ : Actin). All proteins were used as supplied, i.e. without dialysis. G-Actin stock solutions were pre-spun 1h, 100.000xg, 4 centigrade.
Molecular Mass	66kDa

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Purity	>94% by scanning densitometry from Coomassie G-250 stained SDS-Gels.
Storage	CapZ is stored at –70 centigrade upon arrival will be stable in performance for at least 6 months from the date of purchase. The solubilized protein is kept on ice and should be stored at -20 centigrade in glycerol or CryoProtect (Cat.#: 6011-01). Avoid repeated freeze / thaw cycles.
Shipping	At ambient temperature. Upon delivery store at -70 centigrade.

GENE INFORMATION

Gene Name	CAPZA1 capping protein (actin filament) muscle Z-line, alpha 1 [Homo sapiens]
Official Symbol	CAPZA1
Synonyms	CAPZA1; capping protein (actin filament) muscle Z-line, alpha 1; F-actin-capping protein subunit alpha-1; Cap Z; capZ alpha-1; CAPZ; CAZ1; CAPPA1;
Gene ID	829
mRNA Refseq	NM_006135
Protein Refseq	NP_006126
MIM	601580
UniProt ID	P52907

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