

Recombinant Human F-actin-capping protein subunit alpha-2(CAPZA2)

Catalog No: #AP70117

Package Size: #AP70117-1 20ug #AP70117-2 100ug #AP70117-3 1mg

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Description

Product Name	Recombinant Human F-actin-capping protein subunit alpha-2(CAPZA2)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-286aaSequence Info:Full Length
Other Names	CapZ alpha-2
Accession No.	P47755
Calculated MW	48.8 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	ADLEEQLSDEEKVRIAAKFIIHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAFAYNLDQFTPVKIEGYEDQVLI TEHGD LGNGKFLDPKNRICFKFDHLRKEATDPRPCEVENAVESWRSTSVETALRAYVKEHYPNGVCTVYGKKI DGQQTIIACIESHQFQAKNFWNGRWRSEWKFTITPSTTQVVGILKIQVHYIEDGNVQLVSHKDIQDSLTVSNEV QTAKEFIKIVEAAENEYQTAISENYQTMSDTTFKALRRQLPVTRTKIDWNKILSYKIGKEMQNA
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

F-actin-capping proteins bind in a Ca²⁺-independent manner to the fast growing ends of actin filaments (barbed end) thereby blocking the exchange of subunits at these ends. Unlike other capping proteins (such as gelsolin and severin), these proteins do not sever actin filaments.

References

Sequence analysis and chromosomal localization of human Cap Z. Conserved residues within the actin-binding domain may link Cap Z to gelsolin,severin and profilin protein families.Barron-Casella E.A., Torres M.A., Scherer S.W., Heng H.H.Q., Tsui L.-C., Casella J.F.J. Biol. Chem. 270:21472-21479(1995)Research Topic:Signal Transduction

Note: This product is for in vitro research use only and is not intended for use in humans or animals.