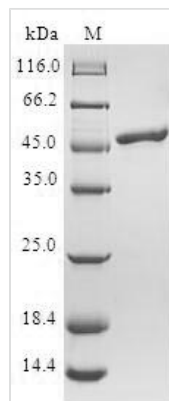




Recombinant Human Telethonin (TCAP)

Product Code	CSB-EP023264HU
Relevance	Muscle assembly regulating factor. Mediates the antiparallel assembly of titin (TTN) molecules at the sarcomeric Z-disk.
Abbreviation	Recombinant Human TCAP protein
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.
Uniprot No.	O15273
Alias	Titin cap protein
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MATSELSCEVSEENCERREAFWAEWKDLTLSTRPEEGCSLHEEDTQRHETYH QQGQCQVLVQRSPWLMMRMGILGRGLQEYQLPYQRVLPPIFTPAKMGATK EEREDTPIQLQELLALETALGGQCVDRQEVAEITKQLPPVVPVSKPGALRRSLS RSMSQEAQRG
Research Area	Cardiovascular
Source	E.coli
Target Names	TCAP
Protein Names	Recommended name: Telethonin Alternative name(s): Titin cap protein
Expression Region	1-167aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	46.1kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The generation of the recombinant Human TCAP protein typically includes the following steps: synthesizing the recombinant plasmid containing the gene encoding the Human TCAP protein (1-167aa), transforming the recombinant plasmid into e.coli cells, selecting the positive e.coli cells, and culturing the positive e.coli cells for protein expression. The protein is equipped with a N-terminal GST tag. After expression, affinity purification is employed to isolate and purify the recombinant TCAP protein from the cell lysate. Denaturing SDS-PAGE is utilized to resolve the resulting recombinant Human TCAP protein, revealing a purity level exceeding 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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.