



Recombinant Human CAST Protein Product Manual

1. Product Basic Information

Product No.: REP06332

Protein Name: Mir583 Host (CAST)

Aliases: BS-17; PLACK; MIR583HG; MIR583 host; calpastatin; calpain inhibitor; sperm BS-17 component

UniProt ID: P20810

UniProt Link: <https://www.uniprot.org/uniprotkb/P20810/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length of isoform 4 (1-667aa)

Molecular Weight: 75.9kDa

Protein Tag: N-terminal 6xHis-tagged

2. Amino Acid Sequence (1-667aa)

MNPTETKAVKTEPEKKSQSTKPKSLPKQASDTGSNDAHNNKAVSRSAEQQPSEKS
TEPKTKPQDMISAGGESVAGITAISGKPGDKKKEKSLTPAVPVESKPDKPSGKSG
MDAALDDLIDTLGGPEETEEENTTYTGPEVSDPMSSTYIEELGKREVTIPPKYRELLA
KKEGITGPPADSSKPIGPDDAIDALSSDFTCGSPTAAGKKTEKEESTEV LKAQSAGT
VRS AAPPQEKKRKVEKDTMSDQALEALSASLGTRQAEPELDLRSIKEVDEAKAKEE
KLEKCGEDDETIPSEYRLKPATDKDGKPLLPEPEEKPKPRSESELIDELSEDFDRSE
CKEKPSKPTEKTEESKAAAPAPVSEAVCRTSMCSIQSAPPEPATLKGTV PDDAVEA
LADSLGKKEADPEDGKPVMDKVKEKAKEEDREKLGEKEETIPPDYRLEEVKDKDGK
PLLPKESKEQLPPMSSEDFLLDALSEDFSGPQNASSLKFEDAKLAAAISEVVSQTPAS
TTQAGAPPRDTSQSDKDLDDALDKLSDSLGQRQPDPDENKPMEDKVKEKAKAEHR
DKLGERDDTIPPEYRHLLDDNGQDKPVKPPTKKSEDSKKPADDQDPIDALSGDLDS
CPSTTETSQNTAKDKCKKAASSSKAPKNGGKAKDSAKTTEETSKPKDD

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements)

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Human CAST full length of isoform 4 protein (1-667aa) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. CAST, also known as BS-17 or PLACK or MIR583HG, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.