

Recombinant Human LTBP3 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50642

Size: 10ug, 100ug

Protein Name: Latent-transforming growth factor beta-binding protein 3 (LTBP-3)

Synonym: LTBP3

UniProt ID: Q9NS15

UniProt Link: www.uniprot.org/uniprotkb/Q9NS15/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1303 AA

Molecular Weight: 139 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MPGPRGAAGGLAPEMRGAGAAGLLALLLLLLLLLLLGLGGRVEGGPAGERGAGGGGALARERFKVV
FAPVICKRTCLKGQCRDSCQQGSNMTLIGENGHSTDLTGSGFRVVVCPLPCMNGGQCSSRNQCL
CPPDFTGRFCQVPAGGAGGGTGGSGPGLSRTGALSTGALPPLAPEGDSVASKHAIYAVQVIADPPG
PGEPPAQHAFLVPLGPGQISAEVQAPPPVNVVRVHHHPPEASVQVHRIESSNAESAAPSQHLLPH
PKPSHPRPPTQKPLGRFCFQDTLPKQPCGSNPLPGLTKQEDCCGSIGTAWGQSKCHKCPQLQYTG
QKPGPVRGEVGADCPQGYKRLNSTHCQDINECAMPGVCRHGDCLNNPGSYRCVCPGHS LGPSR
TQCIADKPEEKSLCFRLVSPQHQCQHLPTTRLTRQLCCCSVGKAWGARCQRCPTDGTAAFKEICPA
GKGYHILTSHQTLTIQGESDFSFLHPDGPPKPKQQLPESPSQAPPPEDTEEERGVT TDS PVSEERSV
QQSHPTATTTTPARPYPELISRPSPPTMRWFLPDLPPSRSAVEIAPTQVTETDECRLNQNICGHGECV
PGPPDYSCHCNPGYRSHPQHRYCVDVNECEAEPCGPGRGICMNTGGSYNCHCNRGYRLHVGAG
GRSCVDLNECAKPHLCGDGGFCINFPGHYKCNCPGYRLKASRPPVCEDIDECRDPSSCPDGKCE
NKPGSFKCIACQPGYRSQGGGACRDVNECAEGSPCSPGWENLPGSFRCTCAQGYAPAPDGRSC
LDVDECEAGDVCDNGICSNTPGSFQCQCLSGYHLSRDRSHCEDIDECDFPAACIGGDCINTNGSYR
CLCPQGHRLVGGRCQDIDECSDPSLCLPHGACKNLQGSYVCVCDEGFTPTQDQHGCEEVEQP
HHKKECYLNFDDTVFCDSVLATNVTQQECCSLGAGWGDHCEIYPCPVYSSAEFHSLCPDGKGYT
QDNNIVNYGIPAHRDIDECMLFGSEICKEGKCVNTQPGYECYCKQGFYYDGNLLECVDVDECLDES
NCRNGVCENTRGGYRCACPPAEYSPAQRQCLSPEEMDVDECQDPAACRPGRCVNLPGSYRCEC
RPPWVPGPSGRDCQLPESPAERAPERRDVCWSQRGEDGMCAGPLAGPALTFDDCCCRQGRGW
GAQCRPCPPRGAGSHCPTSQSESNSFWDTSPLLL GKPPRDEDSSEEDSDECRCVSGRCVPRPGG



AVCECPGGFQLDASRARCVDIDECRELNQRGLLCKSERCVNTSGSFRCVCKAGFARSRPHGACVP
QRRR

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Latent-transforming growth factor beta-binding protein 3 (LTBP-3) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Key regulator of transforming growth factor beta (TGFB1, TGFB2 and TGFB3) that controls TGF-beta activation by maintaining it in a latent state during storage in extracellular space. Associates specifically via disulfide bonds with the Latency-associated peptide (LAP), which is the regulatory chain of TGF-beta, and regulates integrin-dependent activation of TGF-beta.

Subcellular Localization: Secreted . Secreted, extracellular space, extracellular matrix .

Note=Secretion occurs after coexpression with TGFB1 and requires complexing with 'Cys-33' of the TGFB1 propeptide.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.