

LTBP4 Protein, Mouse, Recombinant (His & Myc)

General Information

Synonyms: LTBP-4; Latent-transforming growth factor beta-binding protein 4; Ltbp4

Protein Construction: 1223-1666 aa

Species: Mouse

Expression Host: E. coli

Accession: Q8K4G1

Molecular Weight: 56.0 kDa (predicted)

AA Sequence: RECYFDTAAPDACDNILARNVTWQECCTVGEWGSGCRIQQCPGTETAHEYQSLCPHGREGYLVPSGDLSAR
RDVDECQLFQDQVCKSGVCVNTAPGYSCYCSNGFYHHRLECVNDDECADEEPAGEGRCVNTVGSYHCT
CEPPLVLDGSRRCVSNESQSLDDNLGVCWQEVGPDLVCSRPLDRQATYTECCCLYGEAWGMDCALCPAQ
DSDDFEALCNVLRPPAYGPPRPGGFGIPYEYGPDIGPPYQSLPYGPDLYPPPVLPHYDPPPPPGPFARREAPY
GAPPFDMDFEDDGGPYGESETPDPPSRGTGWPYRSRDRGSPFPEPEESSERGSYTGALSEPYEGLEAECCGI
LDGCPHGRCVRVPEGFTCDCFDGYRLDITRMSVDVNECDEAEATSPLCVNARCVNTDGSFRICRPGFAPTH
QPHHCAPARPR

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

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