

# Recombinant Human LTBP4 Protein, Full Length, C-6xHis tagged

Cat. No. LTBP4-13HFL    Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human LTBP4 Protein (Full Length) with a C-terminal 6-His tag was expressed in Human embryonic kidney cell, HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Full Length
<b>Description</b>	The protein encoded by this gene binds transforming growth factor beta (TGFB) as it is secreted and targeted to the extracellular matrix. TGFB is biologically latent after secretion and insertion into the extracellular matrix, and sheds TGFB and other proteins upon activation. Defects in this gene may be a cause of cutis laxa and severe pulmonary, gastrointestinal, and urinary abnormalities. Three transcript variants encoding different isoforms have been found for this gene.
<b>Bio-activity</b>	Measured by the ability of the immobilized protein to support the adhesion of HFL1 human fetal lung fibroblast cells. The ED50 for this effect is 0.5-2.5 µg/mL.
<b>Molecular Mass</b>	Predicted Molecular Mass: 174 kDa SDS-PAGE: 155-205 kDa, reducing conditions
<b>Endotoxin</b>	<0.10 EU/µg of the protein by the LAL method.

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<b>Purity</b>	> 95%, by SDS-PAGE with silver staining.
<b>N-terminal Sequence Analysis</b>	Multiple starts between Met1 & Ser273
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS.
<b>Shipping</b>	The product is shipped at ambient temperature.
<b>Reconstitution</b>	Reconstitute at 200 µg/mL in PBS.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Kantola, A.K. et al. (2008) Exp. Cell Res. 314:2488.</li> <li>2. Saharinen, J. et al. (1998) J. Biol. Chem. 273:18459.</li> <li>3. Koli, K. et al. (2001) J. Cell Sci. 114:2869.</li> </ol>

## GENE INFORMATION

<b>Gene Name</b>	LTBP4 latent transforming growth factor beta binding protein 4 [ Homo sapiens (human) ]
<b>Official Symbol</b>	LTBP4
<b>Synonyms</b>	LTBP4; latent transforming growth factor beta binding protein 4; ARCL1C; LTBP-4; LTBP4L; LTBP4S; latent-transforming growth factor beta-binding protein 4; latent transforming growth factor-beta binding protein 4L

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Gene ID	8425
mRNA Refseq	NM_001042544
Protein Refseq	NP_001036009
MIM	604710
UniProt ID	Q8N2S1

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