

32-7339: Recombinant Human Lipopolysaccharide-Binding Protein/LBP (C-6His)

Gene : LBP
Gene ID : 3929
Uniprot ID : P18428

Description

Source: Human Cells.
MW :51.95kD.

Recombinant Human LBP is produced by our Mammalian expression system and the target gene encoding Ala26-Val481 is expressed with a 6His tag at the C-terminus. Lipopolysaccharide binding protein (LBP) is a plasma protein, belongs to a member of structurally and functionally related proteins which includes bactericidal permeability-increasing protein (BPI), plasma cholesteryl ester transfer protein (CETP) and phospholipid transfer protein (PLTP). It is involved in the acute-phase immunologic response to gram-negative bacterial infections. In cooperation with BPI, LBP binds LPS and interacts with the CD14 receptor, most likely playing a role in regulating LPS-dependent monocyte responses. Studies suggest that LBP is necessary for the rapid acute-phase response to LPS but not for the clearance of LPS from circulation. Finally, the LBP gene is found on chromosome 20, directly downstream of the BPI gene.

Product Info

Amount : 10 µg / 50 µg
Content : Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 1mM EDTA, pH 7.2.
Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks.
Storage condition : Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.
Amino Acid : ANPGLVARITDKGLQYAAQEGLLALQSELLRITLPDFTGDLRIPHVGRGRYEFHSLNIHSCCELLHSALRPVPGQGL
SLSISDSSIRVQGRWKVRKSFKLGQSFVSVKGISISVNLGSESSGRPTVTASSCSDIADVEVMSGDLG
WLLNLFHNQIESKFQKVLSEMICQSVSSDLQPYLQTLPTTEIDSFADIDYSLVEAPRATAQMLEVFMKGEI
FHRNHRSPVTLAAVMSLPEEHKVMVYFAISDYVFNTASLVYHEEGYLNFSITDDMIPPDSNIRLTTKSFRPFVPR
LARLYPNMNLELQGSVPSAPLLNFSPGNLSVDPYMEIDAFVLLPSSSKEPVFRLSVATNVSATLTFNTSKITGFLK
PGKVKVELKESKVGFLFNAELLEALLNYILNTFYPKFNDKLAEGFPLPLKRVQLYDLGLQIHKDFLFLGANVQYM
RVVDHHHHHH

Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.