For Research Use Only

Recombinant Mouse LBP protein (rFc Tag)

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Catalog Number: Eg3163

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Mouse LBP protein Gly25-Val481 (Accession# Q61805) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
16803

Accession:
Q61805

Predicted Molecular Mass:
76.7 kDa

SDS-PAGE:
80-90 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

LBP (Lipopolysaccharide-binding protein) is a 65 kDa type I acute response protein found in high concentrations in the blood and known to be of hepatic origin with antioxidant properties. It acts as an antioxidant to control lipid homeostasis and protects against oxidative stress by coupling with redox signaling and lipid metabolism. (PMID: 38615060) LBP inhibits monoamine biosynthesis by acting as an endogenous inhibitor of dopamine- β -hydroxylase (DBH) and aromatic-L-amino acid-decarboxylase (DDC), and targeting LBP may have therapeutic potential for some patients with depression.

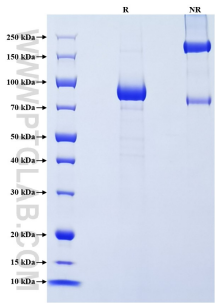
References

1. Zhang Q, et al. Nat Commun. 2024; 3;15(1):3213.
2. Fang M, et al. Immunity. 2023;56(3):620-634.e11.
3. Milbank E,et al. Pharmacol Res. 2023;187:106562.

Synonyms

Lipopolysaccharide-binding protein

Selected Validation Data



Purity of Recombinant Mouse LBP was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.