For Research Use Only

Recombinant Mouse IGFBP1 protein (rFc Tag)(HPLC verified)

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Catalog Number: Eg2934

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/ μg protein, LAL method

Source:
HEK293-derived Mouse IGFBP1 protein Ala26-Asn272 (Accession# P47876) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
16006

Accession:
P47876

Predicted Molecular Mass:
52.9 kDa

SDS-PAGE:
52-60 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm 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

IGFBP1 is a binding protein that is produced primarily by the liver outside of pregnancy and is highly expressed by the placenta. IGFBP1 has been implicated in the modulation of the biological activity of insulin-like growth factor (IGF)-1 and IGF-2, which are key regulators of growth and metabolism in postnatal and fetal life.

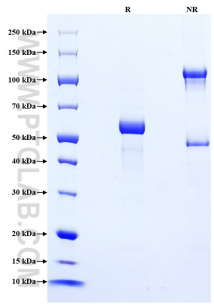
References

1. Uhlén M, et al. (2015). Science. ;347:1260419.
2. Duan C, et al. (2005). Comp. Endocrinol. ;142:44–52.

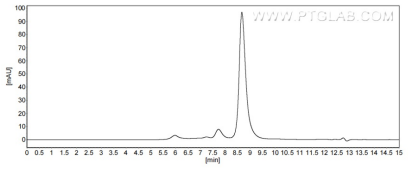
Synonyms

IBP-1, IGF-binding protein 1, IGFBP-1, Insulin-like growth factor-binding protein 1

Selected Validation Data



Purity of Recombinant Mouse IGFBP1 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.



The purity of Mouse IGFBP1 was greater than 90% as determined by SEC-HPLC.