

Cynomolgus IGFBP1 Protein (His Tag)

Catalog Number: 90085-C08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

IGFBP1

Protein Construction:

A DNA sequence encoding the cynomolgus IGFBP1 (F6RF22) (Met23-Asn281) was expressed, fused with a polyhistidine tag at the C-terminus.

Source: Cynomolgus

Expression Host: Human Cells

QC Testing

Purity: > 98 % as determined by SDS-PAGE

Bio-Activity

Measured by its binding ability in a functional ELISA.

Immobilized Cynomolgus IGFBP1-His at 10 µg/ml (100 µl/well) can bind biotinylated human IGF1 (Cat:10598-H24E) with a linear range of 12.5-100 ng/ml.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ala 48

Molecular Mass:

The recombinant Cynomolgus IGFBP1 is a disulfide-linked homodimer. The reduced monomer comprises 245 amino acids and has a calculated molecular mass of 26.7 KDa. The apparent molecular mass of Cynomolgus IGFBP1 heterodimer is approximately 14 KDa respectively in SDS-PAGE.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

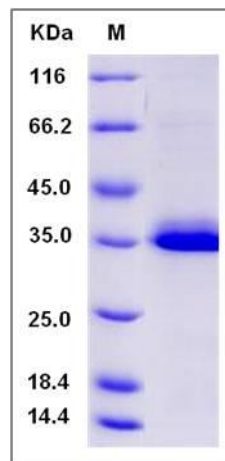
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

IGFBP1, also known as IGFBP-1 and insulin-like growth factor-binding protein 1, belongs to the insulin-like growth factor binding protein family. IGF binding proteins (IGFBPs) are proteins of 24 to 45 kDa. All six IGFBPs share 50% homology with each other and have binding affinities for IGF-I and IGF-II at the same order of magnitude as the ligands have for the IGF-IR. IGFBP1 is a protein with an IGFBP domain and a type-I thyroglobulin domain. It binds both insulin-like growth factors (IGFs) I and II and circulates in the plasma. Binding of this protein prolongs the half-life of the IGFs and alters their interaction with cell surface receptors. IGF-binding proteins prolong the half-life of the IGFs and have been shown to either inhibit or stimulate the growth promoting effects of the IGFs on cell culture. They alter the interaction of IGFs with their cell surface receptors. IGFBP1 promotes cell migration.

References

1. Wood AW. et al., 2005, Int Rev Cytol. 243: 215-85.
2. Firth SM. et al., 2003, Endocr Rev. 23 (6): 824-54.
3. Ferry RJ. et al., 1999, Horm Res. 51 (2): 53-67.

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