

GroPep Bioreagents

Human IGFBP-4

Description

Human Insulin-like growth factor binding protein-4 (IGFBP-4) is a 237 amino acid protein which is a member of a family of six circulating proteins that bind IGF-I and IGF-II with high affinity and modulate their metabolic and mitogenic effects. Human IGFBP-4 is present in biological fluids as an N-linked glycosylated form (28 kDa) and a non-glycosylated form. IGFBP-4 is primarily an inhibitor of IGF action and does not generally bind to cell surfaces.

References

Rechler MM & Clemmons DR (1998) Trends in Endocrinology and Metabolism **9**, 176-183
Zhou *et al* (2003) Journal of Endocrinology **178**, 177-193

Source:

Expressed in a mammalian cell expression system and purified by a series of chromatography steps.

Molecular Weight:

Glycosylated IGFBP-4 is 28 kDa
Non-glycosylated IGFBP-4 is 25.9 kDa

Purity:

>95 % (by FPLC and SDS PAGE)
Characteristic doublet of glycoforms detected by Western Ligand blotting

Endotoxin:

< 0.1 EU/μg

Appearance:

White powder freeze-dried from 0.1M acetic acid and stored under nitrogen at a slight vacuum.

Storage/Stability:

At least 2 years at 2-4°C (as a freeze dried product).

Reconstitution:

Handling of GroPep IGF binding proteins 1-6

Detection:

Procedure for Western Ligand blotting using iodinated IGF-I or IGF-II
Procedure for Western Ligand blotting using biotinylated IGF-I or IGF-II

Product Codes and Pricing

Human IGFBP-4

100 μg

BP4BU100

Related Products:

Human IGFBP-1
Human IGFBP-2
Human IGFBP-3
Human IGFBP-5
Human IGFBP-6
Rat IGFBP-4

****NOT FOR USE IN HUMANS****

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