

GroPep Bioreagents

Human IGFBP-6

Description

Human Insulin-like growth factor binding protein-6 (IGFBP-6) is a 213 amino acid glycosylated protein which is a member of a family of six circulating proteins which bind IGF-I and IGF-II with high affinity and modulate their metabolic and mitogenic effects. IGFBP-6 is unique among IGFBPs for its IGF-II binding specificity since it binds IGF-II with a 20-70 fold higher affinity than IGF-I. IGFBP-6 inhibits growth of a number of IGF-II-dependent cancers, including rhabdomyosarcoma, neuroblastoma and colon cancer. Although the major action of IGFBP-6 appears to be inhibition of IGF-II actions, a number of studies suggest that it may also have IGF-independent actions.

References

Zapf J (1995) Journal of Endocrinology **132**, 645-654
Neumann *et al* (1998) Biochemistry **37**, 6572-6585
Bach LA (2005) Growth Hormone and IGF Research **15**, 185-192

Source:

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

Molecular Weight:

Glycosylated IGFBP-6 is 28-30 kDa by SDS PAGE
Single band determined by ligand blotting

Purity:

>95 % (by HPLC)
The major species contains 213 amino acids, but a minor isoform with a 3 amino acid N-terminal extension [Ala-Leu-Ala] is produced as a result of alternative processing

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-6

100 μg

BP6BU100

Related Products:

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

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

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