

GroPep Bioreagents

Rat IGFBP-5

Description

Rat insulin-like growth factor binding protein-5 (IGFBP-5) is a 252 amino acid protein which preferentially binds IGF-II compared to IGF-I. It is highly conserved with a single amino acid difference [Asp¹⁸⁷] compared to mouse IGFBP-5 [Glu¹⁸⁷] and approximately 97% sequence homology to human IGFBP-5. It is functionally similar to human IGFBP-5 and inhibits the effects of IGF peptides. It binds to extra-cellular matrix proteins which protect it from proteolysis and modify its biological functions.

This product has a 5 amino-acid N-terminal extension (GPLGS).

References

Shimasaki S *et al* (1991) Journal of Biological Chemistry **266**, 10646-10653
Zhu X *et al* (1993) Biochemical and Biophysical Research Communications **190**, 1045-1052
Allan GJ *et al* (2002) Endocrinology **143**, 4310-4319

Source:

Expressed in an Origami™ B cell expression system and purified by affinity chromatography.

Molecular Weight:

Non-glycosylated mouse IGFBP-5 is 28.5 kDa

Purity:

>90 % (by SDS PAGE)

Biological Activity:

Binds IGF-I in Western ligand blot.
Binding affinity for IGF-I - 0.2nM (Biosensor)

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

Rat IGFBP-5

10 μg

BP5CU010

Related Products:

Human IGFBP-5
Mouse IGFBP-5
IGFBP-5 polyclonal antibody

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

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