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Bovine IGFBP-2 (Receptor Grade)
IGF Binding Proteins

Catalog No:
BP2A1U020 Size: 20 µg
BP2A1U100 Size: 100 µg
BP2A1M001 Size: 1.0 mg

Description:
Bovine Insulin-like Growth Factor Binding Protein-2 (bIGFBP-2) is a 284 amino acid protein that is one of the six "classical" IGF binding proteins that play an important role in stabilizing and regulating the activity of IGFs *in vivo*. Bovine IGFBP-2 binds both human and Bovine IGF-I and IGF-II and modifies their biological activity and bioavailability.
Recombinant Bovine IGFBP-2 is available in both Animal/Media Grade (MG) and Receptor Grade (RG).

The Animal/Media Grade (MG) product contains mature Bovine IGFBP-2 of correct Molecular Weight as the major species. As a result of alternative processing by the CHO cells used for the Bovine IGFBP-2 production, three other minor Bovine IGFBP-2 isoforms are also present:
1) One with a three amino acid C-terminal deletion, denoted Des (1-3) Bovine IGFBP-2.
2) One with a single amino acid N-terminal extension, denoted A-Bovine IGFBP-2.
3) One with a four amino acid N-terminal extension, denoted GARA-Bovine IGFBP-2.

The Bovine IGFBP-2 and GARA-Bovine IGFBP-2 have been further purified from the Animal/Media Grade (MG) to yield Receptor Grade (RG) products.

References:
Upton Z. *et al.* (1990) J. Mol. Endo. **5**, 77-84.
Clemmons D. R. *et al.* (1992) Endocrinology, **131**, 890-895.
Bourner M. J. *et al.* (1992) J. Cell. Biochem. **48**, 215-226.

Source:
Produced recombinantly in mammalian cells.
Purified by affinity and other chromatographic steps.

Purity:
Greater than 95% by HPLC and Mass Spectrometry.

Molecular Weight:
30.776 kDa - Confirmed by Mass Spectrometry.

Biological Activity:
IGF-I Binding Assay : ED_{50} Less than 10 nM

State and Appearance:
Lyophilized white powder dried from 0.1% TFA / 30% acetonitrile and stored under dry nitrogen at a slight vacuum (-25 kPa).

Storage/Stability:
At least 2 years at 2 - 4°C (lyophilized).

Reconstitution:
Refer to Protocol 1100: Handling Of IGF Binding Proteins 1-6

Related Products:
Bovine GARA-IGFBP-2 (RG), Catalog No: BP2AGU020, size: 20 µg or Catalog No: BP2AGU100, size: 100 µg

Bovine IGFBP-2 (MG), Catalog No: BP2A2U100, size: 100 µg or Catalog No: BP2A2U500, size: 500 µg or Catalog No: BP2A2U001, size: 1 mg or Catalog No: BP2A2U005, size: 5 mg

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