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Human IGFBP-5

Catalog Number: BP5BU020 **Size:** 20 µg
BP5BU100 **Size:** 100 µg

Description: Human Insulin-like Growth Factor Binding Protein-5 (IGFBP-5) is a 252 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*. Like hIGFBP-3 it forms a ternary complex with an acid-labile subunit (ALS). hIGFBP-5 preferentially binds IGF-II and it also binds with high affinity to extracellular matrix components which protect it from proteolysis. IGFBP-5 has a nuclear targeting sequence and, independent of the presence of IGF-I, fluorescently labeled IGFBP-5 is translocated to the nucleus of actively dividing cells. The significance of this observation is not yet understood.

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

Purity: Greater than 95% (by HPLC and N-terminal sequencing)

Molecular Weight: 31 - 32 kDa

Biological Activity: Detected by immunoblot using an antibody specific for human IGFBP-5.

Formulation: Lyophilized white powder dried from 0.1 M acetic acid and stored under dry nitrogen at a slight vacuum (-25 kPa).

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

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

Reference:
Kiefer M. *et al.* (1991) Biochem. Biophys. Res. Commun. **176**, 219-225
Twigg S.M. *et al.* (1998) J. Biol. Chem. **273**, 28791-28798

Also Available:
IGFBP-5, anti-human, Catalog no: PAZ1, Size: 100 µl
IGFBP-5, antibody for Immunohistochemistry, Catalog no: PAAF1, Size: 20 µg
Human IGFBP-5 Pack, Catalog no: PAZ1-BP5BU020
IGFBP-5 Immunohistochemistry Pack, Catalog no: PAAF-BP5BU020

Usage: **For Research Use only. Not for use in diagnostic procedures.**

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