



## Recombinant Human IGFBP-4, Carrier Free Datasheet

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**Catalog Number:** PR15047CF

**Product Type:** Recombinant Protein

**Source:**

CD33 Signal Peptide (Met 1 - Met 17 )	Mature IGFBP-4 (Asp 22 - Glu 258)
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Mature IGFBP-4 (Kiefer, M. *et al.*, 1991, J. Biol. Chem. **266**:9043 - 9049) (aa residues Asp 22 - Glu 258) was fused to the signal peptide of CD33 and the chimera was expressed in a mouse myeloma cell line, NS0.

**Molecular Mass:** Met 17 from the CD33 signal peptide was retained in the recombinant mature human IGFBP-4. The 238 amino acid residue recombinant mature human IGFBP-4 has a calculated molecular mass of approximately 26 kDa. As a result of glycosylation, the recombinant protein migrates as a 32 kDa and 25 kDa protein under reducing and non-reducing conditions, respectively.

**Purity:** > 97%, as determined by SDS-PAGE and visualized by silver stain.

**Endotoxin Levels:** < 1.0 EU per 1 µg of the cytokine as determined by the LAL method.

**Activity:** Measured by its ability to inhibit the biological activity of rhIGF-I or rhIGF-II on MCF-7 cells (Karey, K.P. *et al.*, 1988, Cancer Research **48**:4083).

The ED50 for this effect is typically 0.03 - 0.09 µg/mL in the presence of 14 ng/mL rhIGF-II.

**Format:** Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.

**Reconstitution:** It is recommended that sterile PBS containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 25 µg/mL.

**Storage:** Lyophilized samples are stable for up to six months at -20° C to -70° C. Upon reconstitution, this cytokine, in the presence of a carrier protein, can be stored under sterile conditions at 2 - 8° C for one month or at -20° C to -70° C in a **manual defrost freezer** for three months without detectable loss of activity.  
**Avoid repeated freeze-thaw cycles.**

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