Revision 2

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Human $_{His6}$IGFBP2

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UniProt ID:	Entrez-Gene Id:
#P18065	3485

Background

IGFBP2 is a multifunctional protein that plays a key role in the regulation of IGFI/II activity, cell proliferation, and cell adhesion (1,2). One of six high-affinity IGF binding proteins, IGFBP2 is the second most abundant IGFBP species in circulation (1). IGFBP2 can antagonize IGF signaling, or directly stimulate cell proliferation depending on context and cell type (1,2). Many of these effects are IGF independent (2). Elevated serum levels of IGFBP2 have been reported in a variety of cancers (1,2). IGFBP2 has been implicated in angiogenesis in a murine melanoma model (3).

Endotoxin

Less than 0.01 ng endotoxin/1 µg h_{His6}IGFBP2.

Purity

>95% as determined by SDS-PAGE of 6 µg reduced (+) and nonreduced (-) recombinant h_{His}IGFBP2. All lots are greater than 95% pure.

Source / Purification

Recombinant Human $_{His6}$IGFBP2 (h_{His6}IGFBP2) Glu40-Gln328 (Accession #NP_18065) was expressed in human 293 cells at Cell Signaling Technology.

Bioactivity

The bioactivity of h_{His6}IGFBP2 was determined by inhibition of IGF-I induced AKT phosphorylation in human dermal fibroblasts. The ED_{50} of each lot is between 0.1 and 0.5 µg/ml.

Background References

1. Fukushima, T. and Kataoka, H. (2007) *Anticancer Res* 27, 3685-92.
2. Hoeflich, A. et al. (2001) *Cancer Res* 61, 8601-10.
3. Das, S.K. et al. (2013) *Cancer Res* 73, 844-54.

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Limited Uses