9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

IGFBP7 Human, His

Insulin Like Growth Factor Binding Protein-7Human Recombinant, His Tag
GRF0187

Product Overview

Name	IGFBP7 Human, His

Description

Insulin Like Growth Factor Binding Protein-7Human Recombinant, His Tag

Accession (Primary)	Q16270

Synonyms

Insulin-like growth factor-binding protein 7, IBP-7, IGF-binding protein 7, IGFBP-7, IGFBP-rP1, MAC25 protein, PGI2-stimulating factor, Prostacyclin-stimulating factor, Tumor-derived adhesion factor, TAF, IGFBP7, MAC25, PSF, AGM, FSTL2, RAMSVPS, IGFBP-7v, IGFBPRP1.

Introduction

Insulin-like Growth Factor-Binding Protein 7 (IGFBP7) is a member of the IGFBP family. IGFBP family members are all cysteine rich proteins with conserved cysteine and have an IGFBP domain, a Kazal-like domain and an Ig-like C2-type domain. IGFBP7 is expressed in a broad range of normal human tissues and it mostly shows reduced expression in cancer cell lines of prostate, breast, colon, and lung origin. IGFBP7 has a role in skeletal myogenesis by binding to IGF in a manner which inhibits IGF induced differentiation of skeletal myoblasts, without disturbing IGF induced proliferation. Moreover, IGFBP7 suppresses growth and colony formation of prostate and breast cancer cell lines via an IGF independent mechanism, which triggers a delay in the G1 phase of the cell cycle, and increased apoptosis.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

IGFBP7 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 50% glycerol, 2mM DTT and 1mM EDTA.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 85% as determined by SDS-PAGE.

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Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS SSSDTCG PCEPASCPPL PPLGCLLGET RDACGCCPMC ARGEGEPCGG GGAGRGYCAP GMECVKSRKR RKGKAGAAAG GPGVSGVCVC KSRYPVCGSD GTTYPSGCQL RAASQRAESR GEKAITQVSK GTCEQGPSIV TPPKDIWNVT GAQVYLSCEV IGIPTPVLIW NKVKRGHYGV QRTELLPGDR DNLAIQTRGG PEKHEVTGWV LVSPLSKEDA GEYECHASNS QGQASASAKI TVVDALHEIP VKKGEGAEL.

Precautions

IGFBP7 Human, His is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q16270)