

Human recombinant IGFBP7(IGF-binding protein 7) protein, AF

Catalog Number: PROTQ16270-4

Overview

Product Name	Human recombinant IGFBP7(IGF-binding protein 7) protein, AF
Description	IGFBP7, also known as mac25, prostacyclin-stimulating factor (PSF), tumor adhesion factor (TAF), and angiomodulin (AGM), is a secreted protein that belongs to the insulin-like growth factor (IGF)-binding protein (IGFBP) family. In contrast to the other family members, IGFBP7 binds IGFs through the N-terminal domain with low affinity. IGFBP7 is expressed in various human tissues, including the brain, liver, pancreas, and skeletal muscle, and is secreted into circulation. IGF-BP7 modulates many biological functions, such as protein synthesis, proliferation, anti-apoptosis, and cell survival. Moreover, it has been reported that IGFBP7 promotes cardiac senescence through IGF-1R/IRS/AKT-dependent suppression of FOXO3a, inhibiting DNA repair, subsequently the leading to the progression of Heart failure. Human and mouse IGFBP7 are highly homologous, sharing 94% a.a. sequence identity.
Size	5ug,20ug,100ug
Tag	His-SUMO Tag (N-term)
Form	Lyophilized
Source	HEK293 cell
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>95% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 38.18 kDa. The protein migrates as 55 kDa under reducing condition (SDS-PAGE analysis).

Activity

Testing in process

Endotoxin

<1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

A DNA sequence encoding Human IGFBP7 (#Q16270) (Ser27 – Leu282) was expressed with polyhistidine-SUMO tag at the N-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 200 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Usage

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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