



[Go to Product page](#)

Datasheet for ABIN7505664
IGFBP7 Protein (AA 1-282) (His tag)

Overview

Quantity:	100 µg
Target:	IGFBP7
Protein Characteristics:	AA 1-282
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IGFBP7 protein is labelled with His tag.

Product Details

Sequence:	Met1-Leu282
Characteristics:	A DNA sequence encoding the Human IGFBP-7 protein (Q16270) (Met1-Leu282) was expressed with a C-His.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	IGFBP7
Alternative Name:	IGFBP-7 (IGFBP7 Products)
Background:	Abbreviation: IGFBP-7 Target Synonym: Insulin-like growth factor-binding protein 7,IGFBP7,IGF-binding protein 7,IGFBP-rP1,MAC25 protein,Tumor-derived adhesion factor,TAF Background: Insulin-like growth factor-binding protein 7(IGFBP-7) is a secreted glycosylated

Target Details

protein that contains three protein domain modules. IGFBP7 contains an N-terminal IGFBP domain, followed by a Kazal-type serine proteinase inhibitor domain and a C-terminal immunoglobulin-like C2-type domain. Human and mouse IGFBP7 are highly homologous and share 94 % aa sequence identity. It is expressed in many normal tissues and in cancer cells. It is abundantly expressed in high endothelial venules (HEVs) of blood vessels in the secondary lymphoid tissues. It binds IGF and insulin with very low affinity and has been shown to enhance the mitogenic actions of IGF and insulin. IGFBP7 also has IGF/insulin-independent activities. It interacts with heparan sulfate proteoglycans, type IV collagen, and specific chemokines. It supports weak cell adhesion, promotes cell spreading on type IV collagen, and stimulates the production of the potent vasodilator PGI₂. It modulates tumor cell growth and has also been implicated in angiogenesis.

Molecular Weight:	Calculated MW: 30.91 kDa Observed MW: 32 kDa
-------------------	---

UniProt:	Q16270
----------	------------------------

Pathways:	Growth Factor Binding
-----------	---------------------------------------

Application Details

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Lyophilized
---------	-------------

Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
---------	--

Storage:	4 °C,-20 °C,-80 °C
----------	--------------------

Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
------------------	--

Expiry Date:	12 months
--------------	-----------