

Datasheet for ABIN7320561
IGFBP5 Protein (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	50 µg
Target:	IGFBP5
Origin:	Mouse
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IGFBP5 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse IGFBP-5/IGFBP5 Protein (His Tag)
Sequence:	Leu20-Glu271
Characteristics:	Recombinant Mouse Insulin-like growth factor-binding protein 5 is produced by our Mammalian expression system and the target gene encoding Leu20-Glu271 is expressed with a 6His tag at the C-terminus.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	IGFBP5
Alternative Name:	IGFBP-5/IGFBP5 (IGFBP5 Products)
Background:	Background: Mouse Insulin-like growth factor-binding protein 5(IGFBP-5) belongs to the superfamily of insulin-like growth factor (IGF) binding proteins. It contains 1 IGFBP N-terminal

Target Details

domain and 1 thyroglobulin type-1 domain. Mouse IGFBP-5 shows 97 % aa sequence identity with those of human and rat IGFBP-5. It is expressed mostly in kidney, uterus and gastrocnemius muscle. It also expressed by fibroblasts, myoblasts and osteoblasts, making it the predominant IGFBP found in bone extracts. IGFBP-5 has a strong affinity for hydroxyapatite, allowing it to bind to bone cells. When bound to extracellular matrix, IGFBP-5 is protected from proteolysis and potentiates IGF activity, but when it is soluble, IGFBP-5 is cleaved to a biologically inactive 21 kDa fragment. IGF-binding proteins prolong the half-life of the IGFs and have been shown to either inhibit or stimulate the growth promoting effects of the IGFs on cell culture. They alter the interaction of IGFs with their cell surface receptors.

Synonym: BP-5, IGFBP-5, IGF-binding protein 5, Insulin-like growth factor-binding protein 5,

Molecular Weight: 29.3 kDa

UniProt: [Q07079](#)

Pathways: [WNT Signaling](#), [Carbohydrate Homeostasis](#), [Myometrial Relaxation and Contraction](#), [Regulation of Carbohydrate Metabolic Process](#), [Autophagy](#), [Smooth Muscle Cell Migration](#), [Growth Factor Binding](#)

Application Details

Restrictions: For Research Use only

Handling

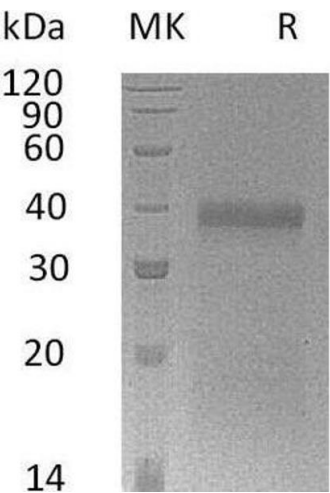
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

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.



Western Blotting

Image 1.