

Recombinant Mouse Insulin-like Growth Factor Binding Protein 2

Cat. No. Igfbp2-1749M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Igfbp2 encoding the full length (Met 1 - Gln 305) was inserted into a suitable mammalian expression vector and expressed in <i>NSO cells</i> .
Species	Mouse
Source	Mammalian Cells
ProteinLength	1-305 a.a.
Description	Insulin-like growth factor binding protein 2, also known as IGFBP2, is an extracellular unglycosylated polypeptide that specifically binds IGF and modulates its effects. IGFBP-2 has direct effects on breast cancer proliferation via stimulation of critical signaling pathways.
Molecular Weight	The predicted molecular weight of Recombinant Mouse IGFBP-2 is Mr 29.4 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 35 kDa.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.
Formulation	This recombinant protein was lyophilized from a 0.2 µm filtered solution in 30% acetonitrile (CH ₃ CN) and 0.1% trifluoroacetic acid (TFA).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Mouse IGFBP-2 was determined by its ability to inhibit the biological activity of rIGF-II on MCF-7 cells. The expected ED50 is typically 0.125 - 0.5 µg/ml in the presence of 30 ng/ml recombinant mouse IGF-II.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.
Full Length	Full L.

GENE INFORMATION

Gene Name	lgfbp2 insulin-like growth factor binding protein 2 [Mus musculus]
Synonyms	lgfbp2; insulin-like growth factor binding protein 2; Igfbp-2; AI255832
Gene ID	16008
mRNA Refseq	NM_008342
Protein Refseq	NP_032368
UniProt ID	P47877
Chromosome Location	1 C3; 1 36.1 cM
Function	growth factor binding; insulin-like growth factor binding

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