

Insulin Like Growth Factor 2 (IGF2) Active Protein | IGF2 active protein

Active Insulin Like Growth Factor 2 (IGF2)

CATALOG # AAA161671	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Insulin Like Growth Factor 2 (IGF2); Active Insulin Like Growth Factor 2 (IGF2); Insulin Like Growth Factor 2; INSIGF; IGF-II; Somatomedin A; Preptin; Insulin-like growth factor II Ala-25 Del4; IGF2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Ala25~Glu9 1
Applicable Applications for IGF2 active protein	Activity Assay, Cell Culture
Species	Mouse
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	7
Research Area	Tumor immunity, Endocrinology
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

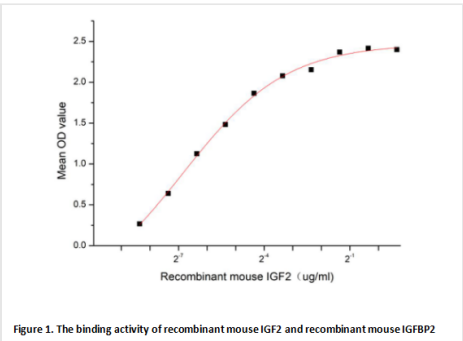
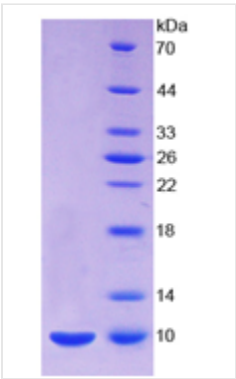


Figure 1. The binding activity of recombinant mouse IGF2 and recombinant mouse IGFBP2



SDS-PAGE
Figure. SDS-PAGE

Bioactivity
Insulin-like growth factor 2 (IGF2) is one of three protein hormones that share structural similarity to insulin. It has growth-regulating, insulin-like and mitogenic activities. IGF2 exerts its effects by binding to the IGF-1 receptor and to the short isoform of the insulin receptor. IGF2 may also bind to the IGF2 receptor (also called the cation-independent mannose 6-phosphate receptor), which acts as a signalling antagonist; that is, to prevent IGF2 responses. Besides, Insulin Like Growth Factor Binding Protein 2 (IGFBP2) has been identified as an interactor of IGF2, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse IGF2 and recombinant mouse IGFBP2. Briefly, IGF2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to IGFBP2-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-IGF2 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450 nm immediately. The binding activity of recombinant mouse IGF2 and recombinant mouse IGFBP2 was shown in Figure 1, the EC50 for this effect is 0.009 ug/mL.

ADDITIONAL INFORMATION

Product Categories/Family for IGF2 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	298231180
NCBI GeneID	16002
NCBI Accession #	NP_034644.2
NCBI GenBank Nucleotide #	NM_010514.3
UniProt Accession #	p09535; P09535
Molecular Weight	20,030 Da
NCBI Official Full Name	insulin-like growth factor II isoform 1 preproprotein
NCBI Official Synonym Full Names	insulin-like growth factor 2
NCBI Official Symbol	Igf2
NCBI Official Synonym Symbols	Mpr; M6pr; Peg2; Igf-2; Igf-II; AL033362
NCBI Protein Information	insulin-like growth factor II; multiplication-stimulating polypeptide
UniProt Protein Name	Insulin-like growth factor II
UniProt Gene Name	Igf2
UniProt Synonym Gene Names	Igf-2
UniProt Entry Name	IGF2_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/insulin-like-growth-factor-2-igf2/161671>