Recombinant IF2B2 protein (His tag)

Catalog Number	543980
Synonyms	IGF2 mRNA-binding protein 2; IMP-2; Hepatocellular carcinoma autoantigen p62; IGF-II mRNA-binding protein 2; VICKZ family member 2
Species	Human
Expression System	E. coli
Accession	Q9Y6M1
Molecular Weight	Predictes a molecular mass of 20.71 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Amino Acid Sequence	MNHKVQEIVN LFIPTQAVGA IIGKKGAHIK QLARFAGASI KIAPAEGPDV SERMVIITGP PEAQFKAQGR IFGKLKEENF FNPKEEVKLE AHIRVPSSTA GRVIGKGGKT VNELQNLTSA EVIVPRDQTP DENEEVIVRI IGHFFASQTA QRKIREIVQQ VKQQEQKYPQ GVASQRSKLE HHHHHH
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 427-599 aa (Q9Y6M1) were fused with C-terminal 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

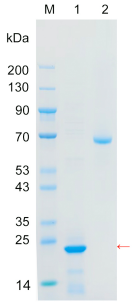
Description

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Recombinant Human IGF2BP2 Fragment (427-599) is a high-purity protein designed for studying the KH 3 and KH 4 domains of Insulin-like growth factor 2 mRNA-binding protein 2. This fragment serves as an essential tool for investigating RNA-binding mechanisms, mRNA stability regulation, and m6A-dependent transcript interactions in cellular models.
IGF2BP2 (IMP-2) is an RNA-binding protein that recruits target mRNAs to cytoplasmic messenger ribonucleoprotein (mRNP) complexes, facilitating transcript transport, storage, and protection from degradation. It preferentially stabilizes N6-methyladenosine (m6A)-modified mRNAs, including MYC and IGF2 transcripts, by binding to specific regions such as the coding region instability determinant. The protein localizes to the nucleus, cytoplasm, P-bodies, and stress granules, dynamically responding to cellular stress. Its role in mRNA 'caging' and stabilization makes it critical for understanding post-transcriptional gene regulation, cancer biology, and cellular stress responses.

Validation

SDS-PAGE



Recombinant IF2B2 protein (His tag) SDS-PAGE
M: Marker; Lane 1: IF2B2; Lane 2: BSA