

# Recombinant human IMPACT protein

Catalog Number: ATGP2266

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-320aa

### UniProt No.

Q9P2X3

### NCBI Accession No.

NP\_060909

### Alternative Names

protein IMPACT, RWDD5

## PRODUCT SPECIFICATION

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### Molecular Weight

38.9 kDa (343aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

IMPACT belongs to the IMPACT family and contains 1 RWD domain. This protein is translational regulator that ensures constant high levels of translation under amino acid starvation and acts by interacting with GCN1/GCN1L1, thereby preventing activation of GCN2 protein kinases (EIF2AK1 to 4) and subsequent down-regulation of protein synthesis. Recombinant human IMPACT protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

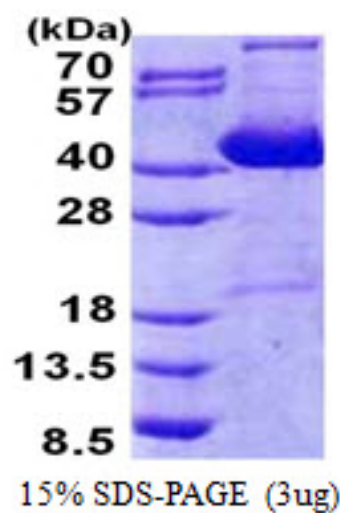
MGSSHHHHHH SSSLVPRGSH MGSM AEGDAG SDQRQNEEIE AMAAIYGEEW CVIDDCAKIF CIRISDDIDD PKWTLCLQVM  
LPNEYPGTAP PIYQLNAPWL KGQERADLSN SLEEIQNI GESILYLWVE KIRDVLIQKS QMTEPGPDVK KKTEEDVEC  
EDDLILACQP ESSVKALDFD ISETRTEVEV EELPPIDHGI PITDRRSTFQ AHLAPVVCPK QVKMVLKLY ENKKIASATH  
NIYAYRIYCE DKQTFLODCE DDGETAAGGR LLHLM EILNV KNVMVVVSRW YGGILLGPDR FKHINNCARN ILVEKNYTNS  
PESSKALGK NKKVRKDKKR NEH

### General References

Habibi,D., et al. (2010) J. Cell. Physiol. 225 (1), 196-205  
Pereira,C.M., et al. (2005) J. Biol. Chem. 280 (31), 28316-28323

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.