Recombinant human IMPACT protein

Catalog Number: ATGP2266

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-320aa

UniProt No.
Q9P2X3

NCBI Accession No.
NP_060909

Alternative Names
protein IMPACT, RWDD5

PRODUCT SPECIFICATION

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

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

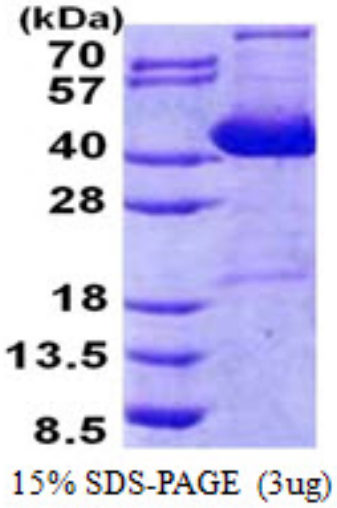
MGSSHHHHHH SSGLVPRGSH MGSMAEGDAG SDQRQNEEIE AMAAIYGEEW CVIDDCAKIF CIRISDDIDD PKWTLCLQVM LPNEYPGTAP PIYQLNAPWL KGQERADLSN SLEEIYIQNI GESILYLWVE KIRDVLIQKS QMTEPGPDVK KKTEEEDVEC EDDLILACQP ESSVKALDFD ISETRTEVEV EELPPIDHGI PITDRRSTFQ AHLAPVVCPK QVKMVLSKLY ENKKIASATH NIYAYRIYCE DKQTFLQDCE DDGETAAGGR LLHLMEILNV KNVMVVVSRW YGGILLGPDR FKHINNCARN ILVEKNYTNS PEESSKALGK 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.