

**IMPACT, 1-320aa, Human, His tag, E.coli**

**Cat.NO.: TP02655**

3th Edition

**Synonyms:**protein IMPACT, RWDD5

**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.

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

**Molecular Weight:**38.9kDa (343aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSMAGDAGSDQRQNEEIEAMAAIYGEEWCVIDDCAKIFCIRISDDIDDPKWTL  
CLQVMLPNEYPGTAPPIYQLNAPWLKGQERADLSNSLEEIYIQNIGESILYLWVEKIRDVLIQKSQMTEPGPDVKKKT  
EEEDVECEDDLILACQPESSVKALDFDISETRTEVEVEELPPIDHGIPITDRRSTFQAHLPVVCVKQKVMVLSKLYE  
NKKIASATHNIYAYRIYCEDKQTFLLQDCEDDGETAAGGRLHLMEILNVKNVMVVSRWYGGILLGPDRFKHINNCA  
RNILVEKNYTNSTPEESSKALGKNKKVRKDKKRNEH

**Purity:**> 95% by HPLC

**Concentration:**1.0 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.