

## Product datasheet for **AR51090PU-N**

### IMPACT (1-320, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	IMPACT (1-320, His-tag) human protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSMAEGDAG SDQRQNEEIE AMAAIYGEW CVIDDCAKIF CIRISDDIDD PKWTLCLQVM LPNEYPGTAP PIYQLNAPWL KGQERADLSN SLEEIYIQNI GESILYLWVE KIRDVLIQKS QMTEPGPDVK KKTEEDVEC EDDLILACQP ESSVKALDFD ISETRTEVEV EELPPIDHGI PITDRRSTFQ AHLAPVWCPK QVKMVLKSLY EN
Tag:	His-tag
Predicted MW:	38.9 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1 mM DTT
Preparation:	Liquid purified protein
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u><a href="#">NP_060909</a></u>
Locus ID:	55364
UniProt ID:	<u><a href="#">Q9P2X3</a></u> , <u><a href="#">A0A024RC24</a></u>
Cytogenetics:	18q11.2
Synonyms:	RWDD5



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**Summary:**

Translational regulator that ensures constant high levels of translation upon a variety of stress conditions, such as amino acid starvation, UV-C irradiation, proteasome inhibitor treatment and glucose deprivation. Plays a role as a negative regulator of the EIF2AK4/GCN2 kinase activity; impairs GCN1-mediated EIF2AK4/GCN2 activation, and hence EIF2AK4/GCN2-mediated eIF-2-alpha phosphorylation and subsequent down-regulation of protein synthesis. May be required to regulate translation in specific neuronal cells under amino acid starvation conditions by preventing GCN2 activation and therefore ATF4 synthesis. Through its inhibitory action on EIF2AK4/GCN2, plays a role in differentiation of neuronal cells by stimulating neurite outgrowth.[UniProtKB/Swiss-Prot Function]

**Product images:**