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## Product Data Sheet

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Product Name: IMPACT Human  
 Cat. No.: GP23699  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	RWDD5; Protein IMPACT; Imprinted and ancient gene protein homolog; IMPACT.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGMAEGDAG SDQRQNEEIE AMAAIYGEEW CVIDDCAKIF CIRISDDIDD PKWTLCLQVM LPNEYPGTAP PIYQLNAPWL KGQERADLSN SLEEIYIQNI GESILYLWVE KIRDVLIQKS QMTEPGPDVK KKTEEDVEC EDDLILACQP ESSVKALDFD ISETRTEVEV EELPPIDHGI PITDRRSTFQ AHLAPVCPK QVKMVLKLY ENKKIASATH NIYAYRIYCE DKQTFQLDCE DDGETAAGGR LLHLMELNV KNVMVVVSRW YGGILLGPDR FKHINNCARN ILVEKNYTNS PEESKALGK NKKVRKDKKR NEH.		
Formulation	IMPACT protein solution (1mg/ml) contains 20mM Tris-HCl buffer, (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

### Introduction

Impact RWD Domain Protein (IMPACT) is a member of the IMPACT family which is comprised of 1 RWD domain. IMPACT is a translational regulator which certifies constant high levels of translation under amino acid starvation. IMPACT interacts with GCN1/GCN1L1, thus preventing activation of GCN2 protein kinases (EIF2AK1 to 4) and subsequent down-regulation of protein synthesis. IMPACT is highly expressed especially in brain.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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IMPACT Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 343 amino acids (1-320 a.a.) and having a molecular mass of 38.9kDa.IMPACT is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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