

## IRGM Human

**Description:**IRGM Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 180 amino acids (23-181) and having a molecular mass of 20.1 kDa. IRGM is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:**PRPS-1309

For research use only.

**Synonyms:**Immunity-related GTPase family M protein, Immunity-related GTPase family M protein1, Interferon-inducible protein 1, LPS-stimulated RAW 264.7 macrophage protein 47 homolog, LRG-47, IRGM, IFI1, IRGM1, LRG47.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MKETLKIVSR TPVNITMAGD  
SGNGMSTFIS ALRNTGHEGK ASPPTLVKA TQRCASYFSS HFSNVVLWDL PGTGSATTTL  
ENYLMEMQFN RYDFIMVASA QFSNMHVMLA KTAEDMGKKF YIVWTKLDMD LSTGALPEVQ  
LLQIRENVLE NLQKERVCEY.

**Purity:**Greater than 90.0% as determined by SDS-PAGE.

### Formulation:

The IRGM solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2M urea and 10% glycerol.

### 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Immunity-related GTPase family M protein (IRGM) is essential for clearance of severe protozoan and bacterial infections. IRGM belongs to the p47 immunity-related GTPase family. IRGM serves in innate immune response possibly via regulation of autophagy. IRGM regulates proinflammatory cytokine production and inhibit endotoxemia upon infection and also has a part in macrophages adhesion and motility. Polymorphisms which modify the natural expression of the IRGM gene are associated with a susceptibility to Crohn's disease and tuberculosis.

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