
Product Data Sheet

Product Name: IRGM Human
 Cat. No.: GP23711
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Immunity-related GTPase family M protein; Immunity-related GTPase family M protein1; LPS-stimulated RAW 264.7 macrophage protein 47 homolog; LRG-47; IRGM; IFI1; IRGM1; LRG47.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MKETLKIVSR TPVNITMAGD SGNGMSTFIS ALRNTGHEGK ASPTELVKA TQRCASYFSS HFSNVVLWDL PGTGSATTTL ENYLMEMQFN RYDFIMVASA QFSMNHVMLA KTAEDMGKKF YIVWTKLDMD LSTGALPEVQ LLQIRENVLE NLQKERVCEY.		
Formulation	The IRGM solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2M urea and 10% glycerol.		

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.

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

IRGM Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide

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

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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.

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