

Recombinant Human immunity-related GTPase family, M, His-tagged

Cat. No. IRGM-394H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	IRGM, 23-181aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	23-181 a.a.
Description	Immunity-related GTPase family M protein, also known as IRGM, is required for clearance of acute protozoan and bacterial infections. This protein functions in innate immune response probably through regulation of autophagy. It may regulate proinflammatory cytokine production and prevent endotoxemia upon infection and may also play a role in macrophages adhesion and motility. Recombinant human IRGM protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2M urea, 10% glycerol
Molecular Mass	20.1 kDa (180aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MKETLKIVSR TPVNITMAGD SGNGMSTFIS ALRNTGHEGK ASPPTELVKA TQRCASYFSS HFSNVVLWDL PGTGSATTTL ENYLMEMQFN RYDFIMVASA QFSMNHVMLA KTAEDMGKKF YIVWTKLDMD LSTGALPEVQ LLQIRENVLE NLQKERVCEY

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Purity	>90 % by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	IRGM immunity-related GTPase family, M [Homo sapiens]
Official Symbol	IRGM
Synonyms	IRGM; immunity-related GTPase family, M; immunity related GTPase family, M1 , IRGM1; immunity-related GTPase family M protein; IFI1; LRG 47; LRG47; LRG-47-like protein; interferon-inducible protein 1; immunity-related GTPase family, M1; LPS-stimulated RAW 264.7 macrophage protein 47 homolog; IRGM1; LRG-47; MGC149263; MGC149264;
Gene ID	345611
mRNA Refseq	NM_001145805
Protein Refseq	NP_001139277
MIM	608212
UniProt ID	A1A4Y4
Chromosome Location	5q33.1

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Pathway	Toxoplasmosis, organism-specific biosystem; Toxoplasmosis, conserved biosystem;
Function	GTP binding; hydrolase activity, acting on acid anhydrides; nucleotide binding;

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