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**Product Data Sheet**


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Product Name: GIMAP5 Human  
 Cat. No.: GP23550  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	GTPase IMAP family member 5; Immunity-associated nucleotide 4-like 1 protein; Immunity-associated nucleotide 5 protein; IAN-5; hIAN5; Immunity-associated protein 3; GIMAP5; IAN4L1; IAN5; IMAP3; HIMAP3; IAN4; IROD.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMGGFQRG KYGTMAEGRS EDNLSATPPA LRIILVGKTG CGKSATGNSI LGQPVFESKL RAQSVTRTCQ VKTGTWNGRK VLVVDTPSIF ESQADTQELY KNIGDCYLLS APGPHVLLLV IQLGRFTAQD TVAIRKVKEV FGTGAMRHVV ILFTHKEDLG GQALDDYVAN TDNCSLKDLV RECERRYCAF NNWGSVEEQR QQQAELLAVI ERLGREREGS FHSNDLFLDA QLLQRTGAGA CQEDYRQYQA KVEWQVEKHK QELRENESNW AYKALLRVKH LMLLHYE.		
Formulation	The GIMAP5 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 40% glycerol and 2mM DTT.		

**Introduction**

GTPase, IMAP Family Member 5 (GIMAP5) is a part of the GTP-binding superfamily and the immuno-associated nucleotide subfamily of nucleotide-binding proteins. GIMAP5 is an antiapoptotic protein which is required for mitochondrial integrity and T-cell survival. Polymorphisms in GIMAP5 are related with systemic lupus erythematosus. Read-through transcription can be found between GIMAP5 and the neighboring upstream GIMAP1 (GTPase, IMAP family member 1) gene. GIMAP5 also contributes to T-cell quiescence.

**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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

GIMAP5 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 307 amino acids (1-284) and having a molecular mass of 34.4 kDa. GIMAP5 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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