

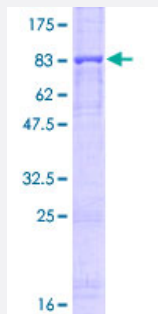
Full-Length

PRF1 (Human) Recombinant Protein (P01)

Catalog # H00005551-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PRF1 full-length ORF (AAH63043.1, 22 a.a. - 555 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

PCHTAARSECKRSHKFVPGAWLAGEGVDVTSRRSGSFPVDTQRFLRPDGTCTLCENALQEGT
LQRLPLALTNWRAQSGCQRHVTRAKVSSTEAVARDAARSIRNDWKVGLDVTPKPTSNVHVS
AGSHSQAANFAAQKTHQDQYSFSTDVECRFYSFHVVHTPPLHPDFKRALGDLPHHFNASTQPA
YLRISNYGTHFIRAVELGGRISALTALRTCELALEGLTDNEVEDCLTVEAQVNIGIHGSISAEAKACE
EKKKKHKMTASFHQTYRERHSEVVGGHHTSINDLLFGIAGPEQYSAWVNSLPGSPGLVDYTL
LHVLLDSQDPRREALRRALSQYLTDARWRDCSRPCPPGRQKSPRDPCQCVCHGSAVTTQDC
CPRQRGLAQLEVTFIQAWGLWGDWFTATDAYVKLFLGGQELRTSTVWDNNPIWVRLDFGDVL
LATGGPLRLQVWDQDSGRDDDLLGTCDQAPKSGSHEVRCNLNHGHLKFRYHARCLPHLGGGTC
LDYVPQMLLGEPPGNRSGAVW

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

84.48

Interspecies Antigen Sequence

Mouse (68); Rat (69)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PRF1

Entrez GeneID	5551
GeneBank Accession#	BC063043
Protein Accession#	AAH63043.1
Gene Name	PRF1
Gene Alias	FLH2, HPLH2, MGC65093, P1, PFN1, PFP
Gene Description	perforin 1 (pore forming protein)
Omim ID	170280 603553 605027
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene has structural and functional similarities to complement component 9 (C9). Like C9, this protein creates transmembrane tubules and is capable of lysing non-specifically a variety of target cells. This protein is one of the main cytolytic proteins of cytolytic granules, and it is known to be a key effector molecule for T-cell- and natural killer-cell-mediated cytotoxicity. Defects in this gene cause familial hemophagocytic lymphohistiocytosis type 2 (HPLH2), a rare and lethal autosomal recessive disorder of early childhood. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq]
Other Designations	OTTHUMP00000019759 cytolysin lymphocyte pore forming protein perforin 1

Publication Reference

- [CD317 mediates immunocytolysis resistance by RICH2/cytoskeleton-dependent membrane protection.](#)

Jian Cheng, Zhao Liu, Tian Deng, Zhen Lu, Maoxuan Liu, Xiaoxu Lu, Funmilayo Oladunni Adeshakin, Dehong Yan, Guizhong Zhang, Xiaochun Wan.

Molecular Immunology 2021 Jan; 129:94.

Application: Func, Human, HeLa, HepG2 cells

- [Role of the inflammatory protein serine protease inhibitor Kazal in preventing cytolytic granule granzyme A-mediated apoptosis.](#)

Lu F, Lamontagne J, Sun A, Pinkerton M, Block T, Lu X.

Immunology 2011 Dec; 134(4):398.

Application: Incubated, Recombinant protein

Pathway

- [Allograft rejection](#)
- [Autoimmune thyroid disease](#)
- [Graft-versus-host disease](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Type I diabetes mellitus](#)

Disease

- [Alzheimer Disease](#)
- [Arthritis](#)
- [Asthma](#)
- [Autoimmune Diseases](#)
- [Bronchiolitis](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)

- [Epstein-Barr Virus Infections](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [HTLV-I Infections](#)
- [Infant](#)
- [Leukemia](#)
- [Lymphohistiocytosis](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Macrophage Activation Syndrome](#)
- [Multiple Sclerosis](#)
- [Respiratory Syncytial Virus Infections](#)