

Regenerating islet-derived protein 3-gamma Recombinant Protein | Reg3g recombinant protein

Recombinant Mouse Regenerating islet-derived protein 3-gamma

CATALOG # AAA115770	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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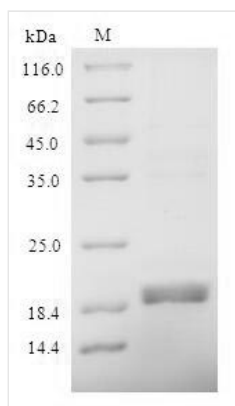
PRODUCT SYNONYMS

Regenerating islet-derived protein 3-gamma; Recombinant Mouse Regenerating islet-derived protein 3-gamma; Pancreatitis-associated protein 3; Regenerating islet-derived protein III-gamma; Reg III-gamma; Reg3g recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	27-174. Partial-length
Sequence	EVAKKDAPSS RSSCPKGSRA YGSYCYALFS VSKNWYDADM ACQKRPSGHL VSVLSGAEAS FLSSMIKSSG NSGQYVWIGL HDPTLGYEPN RGGWEWSNAD VMNYINWETN PSSSSGNHCG TLSRASGFLK WRENYCNLEL PYVCKFKA
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Reg3g recombinant protein

Bactericidal C-type lectin which acts exclusively against Gram-positive bacteria and mediates bacterial killing by binding to surface-exposed carbohydrate moieties of peptidoglycan. Restricts bacterial colonization of the intestinal epithelial surface and consequently limits activation of adaptive immune responses by the microbiota. The uncleaved form has bacteriostatic activity, whereas the cleaved form has bactericidal activity against *L. monocytogenes* and methicillin-resistant *S. aureus*. Regulates keratinocyte proliferation and differentiation after skin injury

References	Structure, chromosomal localization and expression of mouse genes encoding type III Reg, RegIII alpha, RegIII beta, RegIII gamma. Narushima Y., Unno M., Nakagawara K., Mori M., Miyashita H., Suzuki Y., Noguchi N., Takasawa S., Kumagai T., Yonekura H., Okamoto H. <i>Gene</i> 185:159-168(1997) Regulation of C-type lectin antimicrobial activity by a flexible N-terminal prosegment. Mukherjee S., Partch C.L., Lehotzky R.E., Whitham C.V., Chu H., Bevins C.L., Gardner K.H., Hooper L.V. <i>J. Biol. Chem.</i> 284:4881-4888(2009) Refolding, purification, and characterization of human and murine RegIII proteins expressed in <i>Escherichia coli</i>. Cash H.L., Whitham C.V., Hooper L.V. <i>Protein Expr. Purif.</i> 48:151-159(2006) Symbiotic bacteria direct expression of an intestinal bactericidal lectin. Cash H.L., Whitham C.V., Behrendt C.L., Hooper L.V. <i>Science</i> 313:1126-1130(2006) MyD88-mediated signals induce the bactericidal lectin RegIII gamma and protect mice against intestinal <i>Listeria monocytogenes</i> infection. Brandl K., Plitas G., Schnabl B., DeMatteo R.P., Pamer E.G. <i>J. Exp. Med.</i> 204:1891-1900(2007) The antibacterial lectin RegIII gamma promotes the spatial segregation of microbiota and host in the intestine. Vaishnava S., Yamamoto M., Severson K.M., Ruhn K.A., Yu X., Koren O., Ley R., Wakeland E.K., Hooper L.V. <i>Science</i> 334:255-258(2011) The antimicrobial protein REG3A regulates keratinocyte proliferation and differentiation after skin injury. Lai Y., Li D., Li C., Muehleisen B., Radek K.A., Park H.J., Jiang Z., Li Z., Lei H., Quan Y., Zhang T., Wu Y., Kotel P., Morizane S., Hata T.R., Iwatsuki K., Tang C., Gallo R.L. <i>Immunity</i> 37:74-84(2012) Innate Stat3-mediated induction of the antimicrobial protein Reg3 gamma is required for host defense against MRSA pneumonia. Choi S.M., McAleer J.P., Zheng M., Pociask D.A., Kaplan M.H., Qin S., Reinhart T.A., Kolls J.K. <i>J. Exp. Med.</i> 210:551-561(2013)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6755310
NCBI GeneID	19695
NCBI Accession #	NP_035390.1
NCBI GenBank Nucleotide #	NM_011260.1
UniProt Accession #	O09049
Molecular Weight	18.3 kDa
NCBI Official Full Name	regenerating islet-derived protein 3-gamma
NCBI Official Synonym Full Names	regenerating islet-derived 3 gamma
NCBI Official Symbol	Reg3g
NCBI Official Synonym Symbols	AI449515
NCBI Protein Information	regenerating islet-derived protein 3-gamma
UniProt Protein Name	Regenerating islet-derived protein 3-gamma
UniProt Gene Name	Reg3g
UniProt Synonym Gene Names	Pap3; REG-3-gamma; Reg III-gamma
UniProt Entry Name	REG3G_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/reg3g-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/115770>