Grainyhead-Like Protein 1 Homolog (grhl1) Xenopus Laevis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Grainyhead-like protein 1 homolog (grhl1), Recombinant Protein
Full Product Name	Recombinant Xenopus laevis Grainyhead-like protein 1 homolog (grhl1), partial
Product Gene Name	grhl1 recombinant protein
Product Synonym Gene Name	grhl1
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	69,732 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q5EY87
Species	Xenopus laevis (African clawed frog)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for grhl1 recombinant protein	MBS1333722 is a recombinant protein targeting grhl1. Also known as Recombinant Xenopus laevis Grainyhead-like protein 1 homolog (grhl1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of grhl1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for grhl1. It may not necessarily be applicable to this product.

NCBI GI #	148230919
NCBI GeneID	733170
NCBI Accession #	NP_001089071.1
UniProt Primary Accession #	Q5EY87
UniProt Related Accession #	Q5EY87
GenBank Nucleotide #	NM_001095602.1
NCBI Official Full Name	grainyhead-like protein 1 homolog
NCBI Official Synonym Full Names	grainyhead like transcription factor 1 L homeolog
NCBI Official Symbol	grhl1.L

NCBI Official Synonym Symbols	mgr; nh32; grhl1; lbp32; XGrhl1; tfcp2l2
UniProt Protein Name	Grainyhead-like protein 1 homolog
UniProt Synonym Protein Names	Transcription factor CP2-like 2
Protein Family	Grainyhead-like protein
UniProt Gene Name	grhl1
NCBI Protein Information	grainyhead-like protein 1 homolog
UniProt Comments for grhl1	Transcription factor involved in epithelial development (PubMed:15705857). Binds directly to the consensus DNA sequence 5'-AACCGGTT-3' and modulates expression of epidermal-specific genes, including XK81A1 (PubMed:15705857). Important regulator of DSG1 in the context of hair anchorage and epidermal differentiation. Regulates the maintenance of skin barrier. No genetic interaction with GRHL3, no functional cooperativity due to diverse target gene selectivity during epithelia development (). Functions downstream of BMP-signaling cascade modulating endogenous bmp4-responsive targets (PubMed:15705857).
Research Articles on grhl1	**1.** BMP4-dependent expression of Xenopus Grainyhead-like 1 has a critical role in epidermal differentiation
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