HCLS1-Associated Protein X-1 (HAX1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	HCLS1-associated protein X-1 (Hax1), Recombinant Protein
Full Product Name	Recombinant Rat HCLS1-associated protein X-1 (Hax1)
Product Gene Name	Hax1 recombinant protein
Product Synonym Gene Name	Hax1
Sequence	SVFDLFRGFF GFPGPRSHRD PFFGGMTRDD DDDEDDEEEE DSGAWGRESY AFDGFHPTEE FGFSFSPRGG MRFHGNFGFD DLVRDFNSIF SEMGAWTLPS HSPELPGPES ETPGVRLREG QTLRDSMLKY PDSHQPRIFE GVLESHAKPE SSKPAPDWGS QGPFHRLDDT WPVSPHSRAR EDKDLDSQVS QEGLGPLLQP QPKSYFKSIS VTKITKPDGT VEEHRTVVDS EGRRETTVTH QEAHDSSRSD PDPPRSSALD DPFSILDLLL GRWFRSR
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	21,611 Da
Sequence Positions	2-278, full length protein
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 Q7TSE9
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Hax1 recombinant protein	This protein is known to associate with hematopoietic cell-specific Lyn substrate 1, a substrate of Src family tyrosine kinases. It also interacts with the product of the polycystic kidney disease 2 gene, mutations in which are associated with autosomal-dominant polycystic kidney disease, and with the F-actin-binding protein, cortactin. It was earlier thought that this gene product is mainly localized in the mitochondria, however, recent studies indicate it to be localized in the cell body. Mutations in this gene result in autosomal recessive severe congenital neutropenia, also known as Kostmann disease. Two transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of Hax1 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.
Searchable Terms for Hax1 purchase	MBS1345046 is a recombinant protein targeting Hax1. Also known as Recombinant Rat HCLS1-associated protein X-1 (Hax1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Hax1. It may not necessarily be applicable to this product.

NCBI GI #	31745164

NCBI GeneID	291202
NCBI Accession #	NP_853658.1
UniProt Primary Accession #	Q7TSE9
UniProt Secondary Accession #	Q5D1N3; Q5D1N4; Q7TSE7; Q7TSE8
UniProt Related Accession #	Q7TSE9
GenBank Nucleotide #	NM_181627.2
NCBI Official Full Name	HCLS1-associated protein X-1
NCBI Official Synonym Full Names	HCLS1 associated protein X-1
NCBI Official Symbol	Hax1
NCBI Official Synonym Symbols	HAX-1; Hs1bp1
UniProt Protein Name	HCLS1-associated protein X-1
UniProt Synonym Protein Names	HS1-associating protein X-1; HAX-1; HS1-binding protein 1; HSP1BP-1
Protein Family	HCLS1-associated protein
UniProt Gene Name	Hax1
UniProt Synonym Gene Names	Hs1bp1; HAX-1; HSP1BP-1
NCBI Protein Information	HCLS1-associated protein X-1
NCBI Summary for Hax1	protein that may bind to bile salt export protein and may regulate its abundance in membranes [RGD, Feb 2006]
UniProt Comments for Hax1	Recruits the Arp2/3 complex to the cell cortex and regulates reorganization of the cortical actin cytoskeleton via its interaction with KCNC3 and the Arp2/3 complex. Slows down the rate of inactivation of KCNC3 channels. Promotes GNA13-mediated cell migration. Involved in the clathrin-mediated endocytosis pathway. May be involved in internalization of ABC transporters such as ABCB11. May inhibit CASP9 and CASP3. Promotes cell survival. May regulate intracellular calcium pools.
Research Articles on Hax1	**1.** Hax1 is significantly downregulated in cardiac cells upon endoplasmic reticulum stress induction.
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