Molecular Chaperone Hsp31 and Glyoxalase 3 (hchA) Shigella Flexneri Serotype 5b Recombinant Protein

PRODUCT OVERVIEW

Product Name	Molecular chaperone Hsp31 and glyoxalase 3 (hchA), Recombinant Protein
Full Product Name	Recombinant Shigella flexneri serotype 5b Molecular chaperone Hsp31 and glyoxalase 3 (hchA)
Product Gene Name	hchA recombinant protein
Product Synonym Gene Name	hchA
Sequence	MTVQTSKNPQ VDIAEDNAFF PSEYSLSQYT SPVSDLDGVD YPKPYRGKHK ILVIAADERY LPTDNGKLFS TGNHPIETLL PLYHLHAAGF EFEVATISGL MTKFEYWAMP HKDEKVMPFF EQHKSLFRNP KKLADVVASL NADSEYAAIF VPGGHGALIG LPESQDVAAA LQWAIKNDRF VISLCHGPAA FLALRHSDNP LNGYSICAFP DAADKQTPDI GYMPGHLTWY FGEELKKMGM NIINDDITGR VHKDRKRLTG DSPFAANALG KLAAQEMLAA YAS
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	31,280 Da
Sequence Positions	1-283, 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 Q0T3G3
Species	Shigella flexneri serotype 5b (strain 8401)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for hchA recombinant protein	MBS1475766 is a recombinant protein targeting hchA. Also known as Recombinant Shigella flexneri serotype 5b Molecular chaperone Hsp31 and glyoxalase 3 (hchA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of hchA 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 hchA. It may not necessarily be applicable to this product.

NCBI GI #	446140363
NCBI Accession #	WP_000218218.1
UniProt Primary Accession #	Q0T3G3
GenBank Nucleotide #	WP_000218218.1

NCBI Official Full Name	MULTISPECIES: Molecular chaperone Hsp31 and glyoxalase 3
UniProt Protein Name	Protein/nucleic acid deglycase HchA
UniProt Synonym Protein Names	Maillard deglycase
Protein Family	Protein deglycase
UniProt Gene Name	hchA
UniProt Comments for hchA	Protein and nucleotide deglycase that catalyzes the deglycation of the Maillard adducts formed between amino groups of proteins or nucleotides and reactive carbonyl groups of glyoxals. Thus, functions as a protein deglycase that repairs methylglyoxal- and glyoxal-glycated proteins, and releases repaired proteins and lactate or glycolate, respectively. Deglycates cysteine, arginine and lysine residues in proteins, and thus reactivates these proteins by reversing glycation by glyoxals. Acts on early glycation intermediates (hemithioacetals and aminocarbinols), preventing the formation of Schiff bases and advanced glycation endproducts (AGE). Also functions as a nucleotide deglycase able to repair glycated guanine in the free nucleotide pool (GTP, GDP, GMP, dGTP) and in DNA and RNA. Is thus involved in a major nucleotide repair system named guanine glycation repair (GG repair), dedicated to reversing methylglyoxal and glyoxal damage via nucleotide sanitization and direct nucleic acid repair. Plays an important role in protecting cells from carbonyl stress.
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