Glutamate--Cysteine Ligase, Chloroplastic (GSH1) Nicotiana Tabacum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamate--cysteine ligase, chloroplastic (GSH1), Recombinant Protein
Full Product Name	Recombinant Nicotiana tabacum Glutamate--cysteine ligase, chloroplastic (GSH1)
Product Gene Name	GSH1 recombinant protein
Product Synonym Gene Name	GSH1
Sequence	SRNSSKPMQG IYLDRVGVER RRGRLAIVAA SPPTEDAVVA AEPLTKEDLV AYLASGCKSK EKWRIGTEHE KFGFEFGTLR PMKYEQIAEL LNGIAERFDW EKVMEGDNII GLKQGKQSIS LEPGGQFELS GAPLETLHQT CAEVNSHLYQ VKAVAEEMGI GFLGTGFQPK WGLKDIPVMP KGRYEIMRNY MPKVGSLGLD MMFRTCTVQV NLDFSSEADM IRKFRAGLAL QPIATALFAN SPFTEGKPNG YLSMRSHIWT DTDNNRAGML PFVFDDSFGF EQYVDYALDV PMYFVYRKKK YIDCAGMSFR DFMNGKLSPI PGDYPTLNDW ENHLTTIFPE VRLKRYLEMR GADGGPWRRL CALPAFWVGI LYDEVSLQTV LDMTSDWTAE EREMLRNKVP TSGLKTPFRD GLLKHVAQDV VKLAKEGLER RGYKETGFLN EVTEVVRTGV TPAEKLLELY HGKWGRSVDP VFEELLY
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	58,962 Da
Sequence Positions	46-522, 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 Q1W2L8
Species	Nicotiana tabacum (Common tobacco)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GSH1 recombinant protein	MBS1385729 is a recombinant protein targeting GSH1. Also known as Recombinant Nicotiana tabacum Glutamate--cysteine ligase, chloroplastic (GSH1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of GSH1 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 GSH1. It may not necessarily be applicable to this product.

NCBI GI #	1027855751
NCBI GeneID	107799938
NCBI Accession #	NP_001312610.1

UniProt Primary Accession #	Q1W2L8
UniProt Related Accession #	Q1W2L8
GenBank Nucleotide #	NM_001325681.1
NCBI Official Full Name	glutamate--cysteine ligase, chloroplastic
NCBI Official Symbol	LOC107799938
NCBI Official Synonym Symbols	GCS; GSH1; Gamma-ECS
UniProt Protein Name	Glutamate--cysteine ligase, chloroplastic
UniProt Synonym Protein Names	Gamma-ECS; GCS; Gamma-glutamylcysteine synthetase
UniProt Gene Name	GSH1
UniProt Synonym Gene Names	GCS
NCBI Protein Information	glutamate--cysteine ligase, chloroplastic
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