Eukaryotic Translation Initiation Factor 2 Subunit 2 (K04g2.1) (K04G2.1) Caenorhabditis Elegans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Eukaryotic translation initiation factor 2 subunit 2 (K04G2.1), Recombinant Protein
Full Product Name	Recombinant Caenorhabditis elegans Eukaryotic translation initiation factor 2 subunit 2 (K04G2.1)
Product Gene Name	K04G2.1 recombinant protein
Product Synonym Gene Name	K04G2.1
Sequence	MADDLGLDLG KKKKSKKVIK IDGDDAPVET GVEAVEDGLG ELNLGAKKKK KTPKTAGEEV VEEKVPTLEI GIGAQNLIDA KGAWPDYTYE EALTLVYQVM KDKNPDFAGD KKKFAIKLPE VARAGSKKTA FSNFLEICRL MKRQDKHVLQ FLLAELGTTG SIDGSNCLIV KGRWQQKQFE SVLRKYIKEY VMCHTCKSPE TQLTKDTRLF FLQCTNCGSR CSVTAIKSGF KAVVGKRAAI RRAEEATAGK
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	27,580 Da
Sequence Positions	1-250, Full length
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 Q21230
Species	Caenorhabditis elegans
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for K04G2.1 recombinant protein	MBS1323244 is a recombinant protein targeting K04G2.1. Also known as Recombinant Caenorhabditis elegans Eukaryotic translation initiation factor 2 subunit 2 (K04G2.1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of K04G2.1 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 K04G2.1. It may not necessarily be applicable to this product.

NCBI GI #	17508049
NCBI GeneID	172584
NCBI Accession #	NP_492209.1

UniProt Primary Accession #	Q21230
UniProt Secondary Accession #	Q18855
UniProt Related Accession #	Q21230
GenBank Nucleotide #	NM_059808.3
NCBI Official Full Name	Eukaryotic translation initiation factor 2 subunit 2
NCBI Official Symbol	eif-2beta
UniProt Protein Name	Eukaryotic translation initiation factor 2 subunit 2
UniProt Synonym Protein Names	Eukaryotic translation initiation factor 2 subunit beta; eIF-2-beta
UniProt Gene Name	K04G2.1
UniProt Synonym Gene Names	eIF-2-beta
NCBI Protein Information	Eukaryotic translation initiation factor 2 subunit 2
UniProt Comments for K04G2.1	eIF-2 functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA. This complex binds to a 40S ribosomal subunit, followed by mRNA binding to form a 43S preinitiation complex. Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF-2 and release of an eIF-2-GDP binary complex. In order for eIF-2 to recycle and catalyze another round of initiation, the GDP bound to eIF-2 must exchange with GTP by way of a reaction catalyzed by eIF-2B ().
Research Articles on K04G2.1	**1.** Isolation and characterization of mutations in eif-2Ba encoding the a-subunit of eIF2B support a conserved role for eIF2Balpha in providing a binding site for phosphorylated eIF2a to inhibit the exchange factor eIF2B catalytic activity that is required for translation initiation
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