Homeobox Protein Unplugged (unpg) Drosophila Melanogaster Recombinant Protein

PRODUCT OVERVIEW

Product Name	Homeobox protein unplugged (unpg), Recombinant Protein
Full Product Name	Recombinant Drosophila melanogaster Homeobox protein unplugged (unpg)
Product Gene Name	unpg recombinant protein
Product Synonym Gene Name	unpg
Sequence	MERPALLQNG EIGTMESPTT RLASKPFPKP FSIESLIANQ TPATATPPSP PEERDQEQEA EQEQELSARA MVASSALGLT QFPLYNPWLH GYFAQNHERL THLIAGGCYL PSSPAGHPAA QQPQAQAQPQ PPPPHPPTHA LEKQLPPTLP HPLDTRFLPF NPAAAGVAPT DLSYRRLAEL MNQDYVHSLS VHARLQHMAA AGRMHEDQAN PGMAQLQEPT PPQAHSSPAK SGSHSPMEPA LDVGMDEDFE CSGDSCSDIS LTMSPRNYNG EMDKSRNGAY TNSDSEDCSD DEGAQSRHEG GGMGGKDSQG NGSSSNSKSR RRRTAFTSEQ LLELEREFHA KKYLSLTERS QIATSLKLSE VQVKIWFQNR RAKWKRVKAG LTSHGLGRNG TTSGTKIVVP IPVHVNRFAV RSQHQQLEKM CLSGPKPDLR KKLSAEAIGG FEKFSGSTNA SSPSGGPVGL GVGVGVGVGV GLGVSTPLSL ARSIY
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	52,230 Da
Sequence Positions	1-485, 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 Q4V5A3
Species	Drosophila melanogaster (Fruit fly)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for unpg recombinant protein	MBS1449550 is a recombinant protein targeting unpg. Also known as Recombinant Drosophila melanogaster Homeobox protein unplugged (unpg). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of unpg 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 unpg. It may not necessarily be applicable to this product.

NCBI GI #	17137170
NCBI GeneID	35942
NCBI Accession #	NP_477146.1
UniProt Primary Accession #	Q4V5A3

UniProt Secondary Accession #	Q24136
UniProt Related Accession #	Q4V5A3
GenBank Nucleotide #	NM_057798.3
NCBI Official Full Name	unplugged
NCBI Official Synonym Full Names	unplugged
NCBI Official Symbol	unpg
NCBI Official Synonym Symbols	anon-45C; CG1650; DmelCG1650; Gbx; unp; upg
UniProt Protein Name	Homeobox protein unplugged
Protein Family	Homeobox protein
UniProt Gene Name	unpg
NCBI Protein Information	CG1650 gene product from transcript CG1650-RA
UniProt Comments for unpg	Plays a regulatory role in neural branching of the tracheae: segment-specific aspects of these neural branching patterns appear to be generated by homeotic regulation of expression. May have a role with oc/otd in the postembryonic development of the brain.
Research Articles on unpg	**1.** Mutational inactivation of otd/Otx2 and unpg/Gbx2 result in the loss or misplacement of the brain-specific expression domains of Pax2/5/8 and Hox genes.
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