Developmental Pluripotency-Associated Protein 3 (DPPA3) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Developmental pluripotency-associated protein 3 (Dppa3), Recombinant Protein
Full Product Name	Recombinant Mouse Developmental pluripotency-associated protein 3 (Dppa3)
Product Gene Name	Dppa3 recombinant protein
Product Synonym Gene Name	Dppa3
Sequence	MEEPSEKVDP MKDPETPQKK DEEDALDDTD VLQPETLVKV MKKLTLNPGV KRSARRRSLR NRIAAVPVEN KSEKIRREVQ SAFPKRRVRT LLSVLKDPIA KMRRLVRIEQ RQKRLEGNEF ERDSEPFRCL CTFCHYQRWD PSENAKIGKN
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	17,670 Da
Sequence Positions	1-150, 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 Q8QZY3
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Dppa3 recombinant protein	This gene encodes a protein that in mice may function as a maternal factor during the preimplantation stage of development. In mice, this gene may play a role in transcriptional repression, cell division, and maintenance of cell pluripotentiality. In humans, related intronless loci are located on chromosomes 14 and X.
Other Notes	Small volumes of Dppa3 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 Dppa3 purchase	MBS1339510 is a recombinant protein targeting Dppa3. Also known as Recombinant Mouse Developmental pluripotency-associated protein 3 (Dppa3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Dppa3. It may not necessarily be applicable to this product.

NCBI GI #	21218416
NCBI GeneID	73708
NCBI Accession #	NP_631964.1
UniProt Primary Accession #	Q8QZY3

UniProt Secondary Accession #	F6S6F5
UniProt Related Accession #	Q8QZY3
GenBank Nucleotide #	NM_139218.1
NCBI Official Full Name	developmental pluripotency-associated protein 3
NCBI Official Synonym Full Names	developmental pluripotency-associated 3
NCBI Official Symbol	Dppa3
NCBI Official Synonym Symbols	PCG7; PGC7; Stella; 2410075G02Rik
UniProt Protein Name	Developmental pluripotency-associated protein 3
UniProt Synonym Protein Names	Compaction-associated protein 1; Primordial germ cell protein 7
Protein Family	Developmental pluripotency-associated protein
UniProt Gene Name	Dppa3
UniProt Synonym Gene Names	Cap1p; Crg1; Pgc7
NCBI Protein Information	developmental pluripotency-associated protein 3
UniProt Comments for Dppa3	Primordial germ cell (PGCs)-specific protein involved in epigenetic chromatin reprogramming in the zygote following fertilization. In zygotes, DNA demethylation occurs selectively in the paternal pronucleus before the first cell division, while the adjacent maternal pronucleus and certain paternally-imprinted loci are protected from this process. Participates in protection of DNA methylation in the maternal pronucleus by preventing conversion of 5mC to 5hmC: specifically recognizes and binds histone H3 dimethylated at 'Lys-9' (H3K9me2) on maternal genome, and protects maternal genome from TET3-mediated conversion to 5hmC and subsequent DNA demethylation. Does not bind paternal chromatin, which is mainly packed into protamine and does not contain much H3K9me2 mark. Also protects imprinted loci that are marked with H3K9me2 in mature sperm from DNA demethylation in early embryogenesis. May be important for the totipotent/pluripotent states continuing through preimplantation development. Also involved in chromatin condensation in oocytogenesis.
Research Articles on Dppa3	**1.** PRDM1 and STELLA, while overlapping in putative primordial germ cells, also co-localize in several other tissues
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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