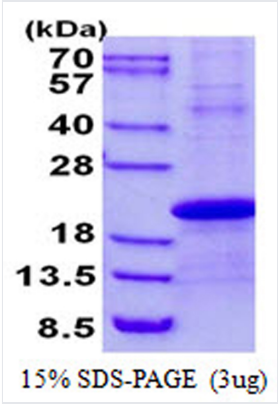
DPPA3 Recombinant Protein

PRODUCT OVERVIEW

Product Name	DPPA3, Recombinant Protein
Full Product Name	DPPA3, 1-159aa, Human, His tag, E Coli (Denatured)
Product Gene Name	DPPA3 recombinant protein
Product Synonym Names	Developmental pluripotency associated 3; STELLA
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMDPSQFN PTYIPGSPQM LTEENSRDDS GASQISSETL IKNLSNLTIN ASSESVSPLS EALLRRESVG AAVLREIEDE WLYSRRGVRT LLSVQREKMA RLRYMLLGGV RTHERRPTNK EPKGVKKESR PFKCPCSFCV SNGWDPSENA RIGNQDTKPL QP
Host	E Coli
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.4M urea, 10% glycerol,
Purity/Purification	> 90% by SDS-PAGE
Concentration	1 mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	20.2 kDa (182aa)
OMIM	AY317075 mRNA
3D Structure	ModBase 3D Structure for Q6W0C5
Antigen Species	Human
Tag Information	His-tag
Product Categories/Family for DPPA3 recombinant protein	Development
Applications Tested/Suitable for DPPA3 recombinant protein	SDS-PAGE
Application Notes for DPPA3 recombinant protein	This protein is denatured. Denatured protein is most likely not the best option for functional studies. Denatured protein is better suited for Western Blot (WB) or imaging assays. Applications are user determined.
Related Product Information for DPPA3 recombinant protein	DPPA3 is a protein that in mice may function as a maternal factor during the preimplantation stage of development. In mice, this protein 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. Recombinant human DPPA3 protein, fused to His-tag at N-terminus, was expressed in E Coli.
Product References and Citations for DPPA3 recombinant protein	Nakamura,T.,et al. (2007) Nat. Cell Biol. 9 (1), 64-71
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	MBS204224 is a recombinant protein targeting DPPA3. Also known as DPPA3, 1-159aa, Human, His tag, E Coli (Denatured). Host: E Coli.



SDS-Page of DPPA3 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DPPA3. It may not necessarily be applicable to this product.

NCBI GI #	40548326
NCBI GeneID	359787
NCBI Accession #	NP_954980
UniProt Primary Accession #	Q6W0C5
UniProt Secondary Accession #	Q0P5U3; Q6JZS6
UniProt Related Accession #	Q6W0C5
GenBank Nucleotide #	NM_199286.3
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	Pgc7; STELLA
UniProt Protein Name	Developmental pluripotency-associated protein 3
UniProt Synonym Protein Names	Stella-related protein
Protein Family	Developmental pluripotency-associated protein
UniProt Gene Name	DPPA3
UniProt Synonym Gene Names	STELLAR
NCBI Protein Information	developmental pluripotency-associated protein 3
NCBI Summary for DPPA3	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. [provided by RefSeq, Jul 2008]

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.** Super-enhancers at the Nanog locus differentially regulate neighboring pluripotency-associated genes, in particular, DPPA3.
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