Sex-Determining Region Y Protein (SRY) Cat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Sex-determining region Y protein (SRY), Recombinant Protein
Full Product Name	Recombinant Cat Sex-determining region Y protein (SRY)
Product Gene Name	SRY recombinant protein
Product Synonym Gene Name	SRY
Sequence	MLRVLSSDEH REAVQQQNIL AVEGTSCELC TESPTSNYRC ETRGKGRDRG QDRVKRPMNA FMVWSRDQRR KVALENPQTQ NSEISKQLGY QWKMLTQAEK WPFFEEAQRL QALHREKYPG YRYRPRRKAR PEKSDKLPPA DASSTLCSQL HAGERLYAFP YKDGCTKAAH SGMKDQLYSS SEPMSITSSL LEPGPHRTST TLQDSPEDLA MQLSADAPLY RTLELGVSEA YFAW
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	26,811 Da
Sequence Positions	1-234, 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 Q6TC50
Species	Felis catus (Cat) (Felis silvestris catus)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SRY recombinant protein	This intronless gene encodes a transcription factor that is a member of the high mobility group (HMG)-box family of DNA-binding proteins. This protein is the testis-determining factor (TDF), which initiates male sex determination. Mutations in this gene give rise to XY females with gonadal dysgenesis (Swyer syndrome); translocation of part of the Y chromosome containing this gene to the X chromosome causes XX male syndrome.
Other Notes	Small volumes of SRY 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 SRY purchase	MBS1330059 is a recombinant protein targeting SRY. Also known as Recombinant Cat Sex-determining region Y protein (SRY). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

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

NCBI GI #	57163781
NCBI GeneID	493758
NCBI Accession #	NP_001009240.1

UniProt Primary Accession #	Q6TC50
UniProt Related Accession #	Q6TC50
GenBank Nucleotide #	NM_001009240.1
NCBI Official Full Name	sex-determining region Y protein
NCBI Official Symbol	SRY
UniProt Protein Name	Sex-determining region Y protein
UniProt Synonym Protein Names	Testis-determining factor
Protein Family	Sex-determining region Y protein
UniProt Gene Name	SRY
UniProt Synonym Gene Names	TDF
NCBI Protein Information	sex-determining region Y protein
UniProt Comments for SRY	Transcriptional regulator that controls a genetic switch in male development. It is necessary and sufficient for initiating male sex determination by directing the development of supporting cell precursors (pre-Sertoli cells) as Sertoli rather than granulosa cells. In male adult brain involved in the maintenance of motor functions of dopaminergic neurons. Involved in different aspects of gene regulation including promoter activation or repression. Promotes DNA bending. SRY HMG box recognizes DNA by partial intercalation in the minor groove. Also involved in pre-mRNA splicing. Binds to the DNA consensus sequence 5'-[AT]AACAA[AT]-3' ().
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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