Small Ubiquitin-Related Modifier 2 (sumo2) Danio Rerio Recombinant Protein

PRODUCT OVERVIEW

Product Name	Small ubiquitin-related modifier 2 (sumo2), Recombinant Protein
Full Product Name	Recombinant Danio rerio Small ubiquitin-related modifier 2 (sumo2)
Product Gene Name	sumo2 recombinant protein
Product Synonym Gene Name	sumo2
Sequence	MADEKPKEGV KTENNDHINL KVAGQDGSVV QFKIKRHTPL SKLMKAYCER QGLTMRQIRF RFDGQPINET DTPAQLEMED EDTIDVFQQQ TGG
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	11,029 Da
Sequence Positions	1-93, 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 Q6DHL4
Species	Zebrafish
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for sumo2 recombinant protein	MBS1340225 is a recombinant protein targeting sumo2. Also known as Recombinant Danio rerio Small ubiquitin-related modifier 2 (sumo2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of sumo2 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 sumo2. It may not necessarily be applicable to this product.

NCBI GI #	51010927
NCBI GeneID	445027
NCBI Accession #	NP_001003422.1
UniProt Primary Accession #	Q6DHL4
UniProt Related Accession #	Q6DHL4
GenBank Nucleotide #	NM_001003422.2

NCBI Official Full Name	small ubiquitin-related modifier 2
NCBI Official Synonym Full Names	small ubiquitin-like modifier 2b
NCBI Official Symbol	sumo2b
NCBI Official Synonym Symbols	sumo2; zgc:92241
UniProt Protein Name	Small ubiquitin-related modifier 2
Protein Family	Small ubiquitin-related modifier
UniProt Gene Name	sumo2
UniProt Synonym Gene Names	SUMO-2Curated
NCBI Protein Information	small ubiquitin-related modifier 2
UniProt Comments for sumo2	Ubiquitin-like protein that can be covalently attached to proteins as a monomer or as a lysine-linked polymer. Covalent attachment via an isopeptide bond to its substrates requires prior activation by the E1 complex sae1-sae2 and linkage to the E2 enzyme ube2i, and can be promoted by an E3 ligase such as pias1-4. This post-translational modification on lysine residues of proteins plays a crucial role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Polymeric sumo2 chains are also susceptible to polyubiquitination which functions as a signal for proteasomal degradation of modified proteins ().
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