Histone-Lysine N-Methyltransferase, H3 Lysine-79 Specific (dotA) Dictyostelium Discoideum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Histone-lysine N-methyltransferase, H3 lysine-79 specific (dotA), Recombinant Protein
Full Product Name	Recombinant Dictyostelium discoideum Histone-lysine N-methyltransferase, H3 lysine-79 specific (dotA), partial
Product Gene Name	dotA recombinant protein
Product Synonym Gene Name	dotA
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	212,281 Da
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 Q55AX2
Species	Dictyostelium discoideum (Slime mold)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dotA recombinant protein	MBS1437417 is a recombinant protein targeting dotA. Also known as Recombinant Dictyostelium discoideum Histone-lysine N-methyltransferase, H3 lysine-79 specific (dotA), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of dotA 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 dotA. It may not necessarily be applicable to this product.

NCBI GI #	111226944
NCBI GeneID	8618027
NCBI Accession #	XP_645574.2
UniProt Primary Accession #	Q55AX2
GenBank Nucleotide #	XM_640482.2
NCBI Official Full Name	SAM domain-containing protein
NCBI Official Symbol	dotA
UniProt Protein Name	Histone-lysine N-methyltransferase, H3 lysine-79 specific

UniProt Synonym Protein Names	Disruptor of telomeric silencing A
UniProt Gene Name	dotA
UniProt Synonym Gene Names	H3-K79-HMTase
NCBI Protein Information	DOT1 domain-containing protein; SAM domain-containing protein
UniProt Comments for dotA	Histone methyltransferase that specifically methylates histone H3 to form H3K79me. This methylation is required for telomere silencing, correct growth and development, and for resistance to DNA damage induced by UV LIGHT.
Research Articles on dotA	**1.** these results indicate that Dot1 contributes to UV damage resistance and DNA repair in D. discoideum.
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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