

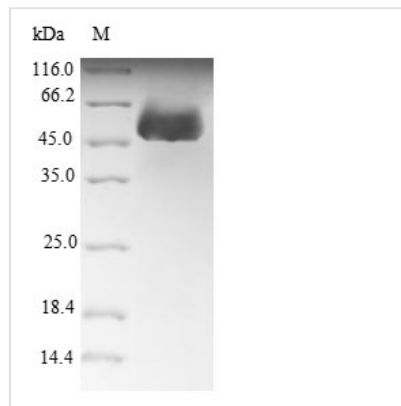


Recombinant Arabidopsis thaliana rRNA 2-O-methyltransferase fibrillar 1 (FIB1)

Product Code	CSB-EP861762DOA
Relevance	Component of the Mediator complex, a coactivator involved in the regulated transcription of nearly all RNA polymerase II-dependent genes. Mediator functions as a bridge to convey information from gene-specific regulatory proteins to the basal RNA polymerase II transcription machinery. The Mediator complex, having a compact conformation in its free form, is recruited to promoters by direct interactions with regulatory proteins and serves for the assembly of a functional pre-initiation complex with RNA polymerase II and the general transcription factors S-adenosyl-L-methionine-dependent methyltransferase that has the ability to methylate both RNAs and proteins. Involved in pre-rRNA processing. Utilizes the methyl donor S-adenosyl-L-methionine to catalyze the site-specific 2'-hydroxyl methylation of ribose moieties in pre-ribosomal RNA. Site specificity is provided by a guide RNA that base pairs with the substrate. Methylation occurs at a characteristic distance from the sequence involved in base pairing with the guide RNA. Also acts as a protein methyltransferase by mediating methylation of 'Gln-105' of histone H2A (H2AQ105me), a modification that impairs binding of the FACT complex and is specifically present at 35S ribosomal DNA locus
Abbreviation	Recombinant Mouse-ear cress MED36B protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9FEF8
Alias	Histone-glutamine methyltransferase SKP1-interacting partner 7 rRNA 2'-O-methyltransferase fibrillar 1 (EC:2.1.1.-)
Product Type	Recombinant Protein
Immunogen Species	Arabidopsis thaliana (Mouse-ear cress)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MRPPVTGGRGGGGFRGGRDGGGRGFGGGRSFGGGRSGDRGRSGPRGRG RGAPRGRGGPPRGGMKGGSKVIVEPHRHAGVFIKGGKEDALVTKNLVPGEAV YNEKRISVQNEGDGKVEYRVWNPFRSKLAAAILGGVDNIWIKPGAKVLYLGAA SGTTVSHVSDLVGPEGCVYAVEFSHRSGRDLVNMMAKRTNVIPIEDARHPAK YRMLVGMVDVIFSDVAQPDQARILALNASFFLKTGGHFVISIKANCIDSTVAAEA VFQSEVKKLQQEQFKPAEQVTLEPFERDHACVGGYRMPKKQKTPAS
Research Area	others
Source	E.coli
Target Names	MED36B



Protein Names	Recommended name: rRNA 2'-O-methyltransferase fibrillarin 1 EC= 2.1.1.- Alternative name(s): SKP1-interacting partner 7
Expression Region	1-308aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	48.8kDa
Protein Length	Full Length

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.