abcam

Product datasheet

Recombinant human Urm1 protein ab190041

Description

Product name	Recombinant human Urm1 protein
Purity	> 99 % SDS-PAGE.
Expression system	Escherichia coli
Accession	Q9BTM9-1
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	11 kDa
Amino acids	1 to 101
Additional sequence information	Isoform 1

Specifications

Our **Abpromise guarantee** covers the use of **ab190041** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -80°C. Avoid freeze / thaw cycle. pH: 7.5 Constituents: 1.19% HEPES, 0.58% Sodium chloride, 0.02% DTT This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function	Acts as a sulfur carrier required for 2-thiolation of mcm(5)S(2)U at tRNA wobble positions of tRNA(Lys), tRNA(Glu) and tRNA(Gln). Serves as sulfur donor in tRNA 2-thiolation reaction by thiocarboxylated (-COSH) at its C-terminus by MOCS3. The sulfur is then transferred to tRNA to form 2-thiolation of mcm(5)S(2)U. May also act as an ubiquitin-like protein that is covalently conjugated to other proteins; the relevance of such function is however unclear in vivo.
Pathway	tRNA modification; 5-methoxycarbonylmethyl-2-thiouridine-tRNA biosynthesis.
Sequence similarities	Belongs to the URM1 family.
Post-translational modifications	C-terminal thiocarboxylation occurs in 2 steps, it is first acyl-adenylated (-COAMP) via the hesA/moeB/thiF part of MOCS3, then thiocarboxylated (-COSH) via the rhodanese domain of MOCS3.
Cellular localization	Cytoplasm.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Replacement or refund for products not performing as stated on the datasheet
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