

Product datasheet

Recombinant Human Urm1 protein ab105598

1 Image

Description

Product name	Recombinant Human Urm1 protein	
Purity	> 95 % SDS-PAGE. ab105598 was purified by using anion-exchange chromatography (DEAE sepharose resin) and gel-filtration chromatography (Sephacryl S-200) with 20mM Tris pH 7.5, 2mM EDTA.	
Expression system	Escherichia coli	
Accession	<u>Q9BTM9</u>	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	MGSSHHHHHSSGLVPRGSHMAAPLSVEVEFGGAEL LFDGIKKHRVTLP GQEEPWDIRNLLIWIKNLLKERPELFIQGDSVRPGILVLIN DADWELLG ELDYQLQDQDSVLFISTLHGG	
Predicted molecular weight	14 kDa including tags	
Amino acids	1 to 101	
Tags	His tag N-Terminus	

Specifications

Our **Abpromise guarantee** covers the use of **ab105598** 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
	Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.00

Constituents: 0.0154% DTT, 0.316% Tris HCl, 10% Glycerol (glycerin, glycerine)

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.

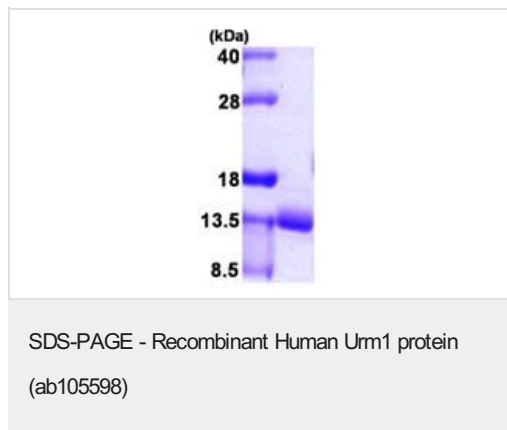
Post-translational modifications

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.

Images



15% SDS-PAGE analysis of 3µg ab105598.

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