

## Product datasheet

### Recombinant Human DS-1 protein ab137167

1 Image

#### Description

<b>Product name</b>	Recombinant Human DS-1 protein
<b>Purity</b>	> 90 % SDS-PAGE. ab137167 was purified using conventional chromatography.
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>Q14197</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSLHKQKDG TEFKSIYSLD KLYPESQGSD TAWRVPNGAK QADSDIPLDR LTISYCRSSG PGGQNVNKKVN SKAEVRFHLA TAEWIAEPVR QKIAITHKNK INRLGELILT SESSRYQFRN LADCLQKIRD MITEASQTPK EPTKEDVKLH RIRIENMNRE RLRQKRIHSA VKTSRRVDMD
<b>Predicted molecular weight</b>	23 kDa including tags
<b>Amino acids</b>	30 to 206
<b>Tags</b>	His tag N-Terminus

#### Specifications

Our **Abpromise guarantee** covers the use of **ab137167** in the following tested applications.

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

<b>Applications</b>	SDS-PAGE Mass Spectrometry
<b>Mass spectrometry</b>	MALDI-TOF
<b>Form</b>	Liquid
<b>Additional notes</b>	Previously labelled as ICT1.

#### Preparation and Storage

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### 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: 0.02% DTT, 0.32% Tris HCl, 30% Glycerol (glycerin, glycerine), 1.17% Sodium chloride

## General Info

### Function

Essential peptidyl-tRNA hydrolase component of the mitochondrial large ribosomal subunit. Acts as a codon-independent translation release factor that has lost all stop codon specificity and directs the termination of translation in mitochondrion, possibly in case of abortive elongation. May be involved in the hydrolysis of peptidyl-tRNAs that have been prematurely terminated and thus in the recycling of stalled mitochondrial ribosomes.

### Tissue specificity

Down-regulated during the in vitro differentiation of HT29-D4 colon carcinoma cells.

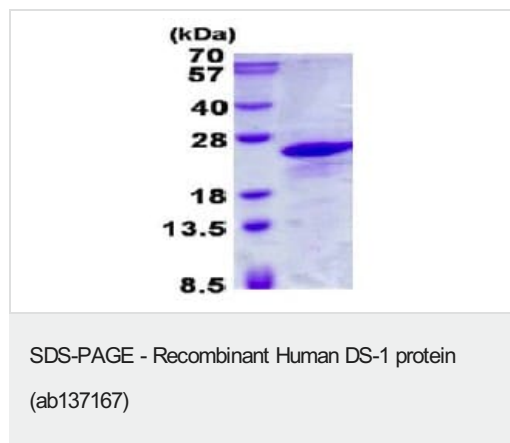
### Sequence similarities

Belongs to the prokaryotic/mitochondrial release factor family. ICT1 subfamily.

### Cellular localization

Mitochondrion.

## Images



15% SDS-PAGE analysis of ab137167 (3µg)

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

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