

Product datasheet

Recombinant *E. coli* UNG protein ab171506

1 Image

Overview

<b>Product name</b>	Recombinant <i>E. coli</i> UNG protein
<b>Protein length</b>	Full length protein

Description

<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli
<b>Amino Acid Sequence</b>	
<b>Accession</b>	<a href="#">P12295</a>
<b>Species</b>	Escherichia coli

<b>Sequence</b>	<p>MGSSHHHHHH SSGLVPRGSH MGSMANELTW          HDVLAEEKQQ PYFLNLTQTV ASERQSGVTI          YPPQKDFVNA FRFTELGDVK VVILGQDPYH          GPGQAHGLAF SVRPGIAIPP SLLNMYKELE          NTIPGFTRPN HGYLESWARQ GVLLNNTVLT          VRAGQAASHA SLGWETFTDK VISLINQHRE          GVVFLLWGS A QKKGAIIDK QRHHVLKAPH          PSPLSAHRGF FGCNHFVLAN QWLEQRGETP          IDWMPVLP AE SE</p>
-----------------	---

<b>Molecular weight</b>	28 kDa including tags
<b>Amino acids</b>	1 to 229
<b>Tags</b>	His tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab171506** 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>	<p>SDS-PAGE</p> <p>Mass Spectrometry</p>
<b>Purity</b>	<p>&gt; 90 % SDS-PAGE.</p> <p>ab171506 is purified using conventional chromatography.</p>
<b>Form</b>	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: 0.32% Tris HCl, 10% Glycerol

## General Info

---

### Function

Excises uracil residues from the DNA which can arise as a result of misincorporation of dUMP residues by DNA polymerase or due to deamination of cytosine.

### Tissue specificity

Isoform 1 is widely expressed with the highest expression in skeletal muscle, heart and testicles. Isoform 2 has the highest expression levels in tissues containing proliferating cells.

### Involvement in disease

Defects in UNG are a cause of immunodeficiency with hyper-IgM type 5 syndrome (HIGM5) [MIM:608106]. Hyper-IgM syndrome is a condition characterized by normal or increased serum IgM concentrations associated with low or absent serum IgG, IgA, and IgE concentrations. HIGM5 is associated with profound impairment in immunoglobulin (Ig) class-switch recombination (CSR) at a DNA precleavage step.

### Sequence similarities

Belongs to the uracil-DNA glycosylase family.

### Post-translational modifications

Isoform 1 is processed by cleavage of a transit peptide.

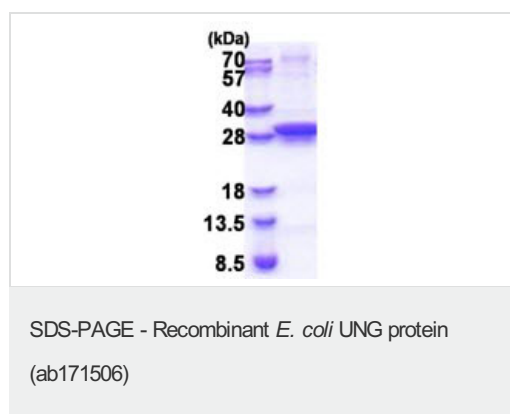
### Cellular localization

Mitochondrion and Nucleus.

---

## Images

---



15% SDS-PAGE analysis of ab171506 (3µg).

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

## Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors