

Product datasheet

Recombinant *E. coli* UNG protein ab171506

1 Image

Description

Product name	Recombinant <i>E. coli</i> UNG protein
Purity	> 90 % SDS-PAGE. ab171506 is purified using conventional chromatography.
Expression system	Escherichia coli
Accession	P12295
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Escherichia coli
Sequence	<pre> MGSSHHHHHH SSGLVPRGSH MGSMANELTW HDVLAEEKQQ PYFLNTLQTV ASERQSGVTI YPPQKDFVNA FRFTELGDVK VVILGQDPYH GPGQAHGLAF SVRPGIAPP SLLNMYKELE NTIPGFTRPN HGYLESWARQ GVLLLNTVLT VRAGQAASHA SLGWETF TDK VISLINQHRE GVVFLLWGS A QKKGAIIDK QRHHVLKAPH PSPLSAHRGF FGCNHFVLAN QWLEQRGETP IDWMPVLP AE SE </pre>
Predicted molecular weight	28 kDa including tags
Amino acids	1 to 229
Tags	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.

Applications	SDS-PAGE Mass Spectrometry
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: 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine)

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.

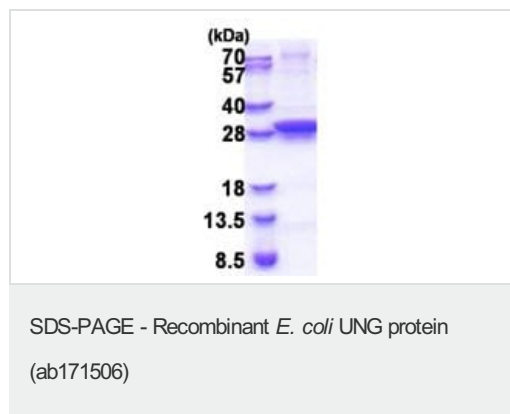
Post-translational modifications

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. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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