

AR09663PU-N

Human DUT (70-252, His-tag) - Purified

Alternate names:

Deoxyuridine 5'-triphosphate nucleotidohydrolase mitochondrial, dUTP pyrophosphatase, dUTPase

Quantity:

0.1 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

DUT, also known as dUTP pyrophosphatase, is a ubiquitous enzyme that functions in nucleotide metabolism. This protein, in the presence of magnesium ions, is responsible for hydrolyzing dUTP to dUMP and diphosphate. This reaction is important for keeping the intracellular dUTP concentration low so that uracil does not become incorporated into DNA. Extensive incorporation of uracil into DNA can ultimately lead to cell death. This suggests that DUT is essential for cell viability, further implying that it is a potential target for anticancer therapy.

Uniprot ID:

[P33316](#)

NCBI:

[NP_001020419](#)

GenelD:

[1854](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS – PAGE

Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 0.1M NaCl

Description:

Recombinant human DUT protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MASTVGAAGW KGELPKAGGS PAPGPETPAI SPSKRARPAE
VGGMQLRFAR LSEHATAPTR GSARAAGYDL YSAYDYTIPT MEKAVVKTDI QIALPSGCGY
RVAPRSLAA KHFDVGAGV IDEDYRGNVG VVLNFGKEK FEVKKGDRIA QLICERIFYP
EIEEVQALDD TERGSGGFGS TGKN

Molecular weight: 21.6 kDa (204aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

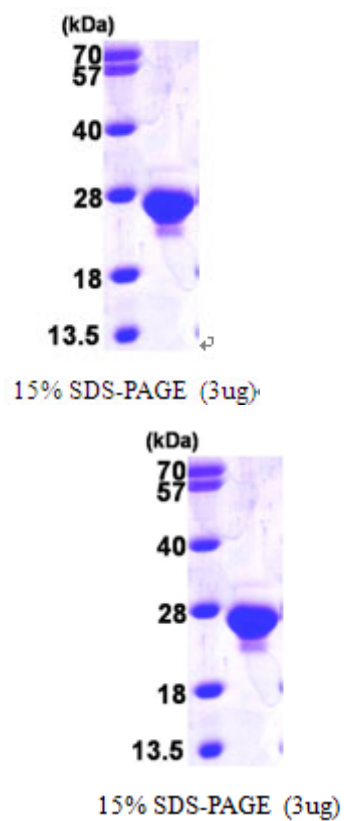
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Persson R., et al. (2001) Curr Protein Pept Sci. 2(4):287-300.

Pictures:



Recombinant human DUT, 70-252 aa, His-tagged