



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Datasheet

### DUT (Human) Recombinant Protein (P01)

**Catalog Number:** H00001854-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human DUT full-length ORF ( NP\_001020419.1, 1 a.a. - 252 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

```
MTPLCPRPALCYHFLTSLRSAMQNGARQRAEAAV  
LSGPGPPLGRAAQHGIPRPLSSAGRLSQQCRGASTV  
GAAGWKGELPKAGGSPAPGPETPAISPSKRARPAEV  
GGMQLRFARLSEHATAPTRGSARAAGYDLYSAYDYTI  
PPMEKAVVKTDIQIALPSGCGYGRVAPRSLAAKHFDIV  
GAGVIDEDYRGNVGVVLFNFGKEKFEVKKGDRIAQLIC  
ERIFYPEIEEVQALDDTERGSGGGFGSTGKN
```

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 53

**Applications:** AP, Array, ELISA, WB-Re

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 1854

**Gene Symbol:** DUT

**Gene Alias:** FLJ20622, dUTPase

**Gene Summary:** This gene encodes an essential

enzyme of nucleotide metabolism. The encoded protein forms a ubiquitous, homotetrameric enzyme that hydrolyzes dUTP to dUMP and pyrophosphate. This reaction serves two cellular purposes: providing a precursor (dUMP) for the synthesis of thymine nucleotides needed for DNA replication, and limiting intracellular pools of dUTP. Elevated levels of dUTP lead to increased incorporation of uracil into DNA, which induces extensive excision repair mediated by uracil glycosylase. This repair process, resulting in the removal and reincorporation of dUTP, is self-defeating and leads to DNA fragmentation and cell death. Alternative splicing of this gene leads to different isoforms that localize to either the mitochondrion or nucleus. A related pseudogene is located on chromosome 19. [provided by RefSeq]