

Recombinant Human DUT protein, His-tagged

Cat. No. DUT-791H Lot. No. (See product label)

SPECIFICATION

| | |
|-------------------------|--|
| Product Overview | Recombinant Human DUT(Met1-Asn164) fused with His tag at N-terminal was expressed in E. coli. |
| Species | Human |
| Source | E.coli |
| ProteinLength | Met1-Asn164 |
| Description | Deoxyuridine 5'-Triphosphate Nucleotidohydrolase Mitochondrial (dUTPase) belongs to the dUTPase family. dUTPase exists as a homotrimer and is involved in nucleotide metabolism. dUTPase produces dUMP, the immediate precursor of thymidine nucleotides and it decreases the intracellular concentration of dUTP so that uracil cannot be incorporated into DNA. The dUTPase increase in PCR product yield, length and fidelity enables further downstream applications. These effects make dUTPase useful in PCR fidelity and yield-sensitive applications. dUTPase is specific for dUTP and is critical for the fidelity of DNA replication and repair. |
| Form | Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH7.4. |
| AA Sequence | MGSSHHHHHSSGLVPRGSHMPCSEETPAISPSKRARPAEVGGMQLRFARLSEHA TAPTRGSARAAGYDLYSAYD YTIIPMEKAVVKTDIQIALPSGCYGRVAPRSGLAAKH FIDVGAGVIDEDYRGNVGVVLFNFGKEKFEVKKGDRIA QLICERIFYPEIEEVQALDD TERGSGGFGSTGKN |

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|------------------|--|
| Endotoxin | Less than 0.1 ng/μg (1 IEU/μg). |
| Purity | Greater than 95% as determined by reducing SDS-PAGE. |
| Storage | Store at < -20 centigrade, stable for 6 months after receipt. Please minimize freeze-thaw cycles. |
| Shipping | The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below. |

GENE INFORMATION

| | |
|------------------------|--|
| Gene Name | DUT deoxyuridine triphosphatase [Homo sapiens] |
| Official Symbol | DUT |
| Synonyms | DUT; deoxyuridine triphosphatase; dUTP pyrophosphatase; deoxyuridine 5-triphosphate nucleotidohydrolase, mitochondrial; dUTPase; dUTP nucleotidohydrolase; FLJ20622; |
| Gene ID | 1854 |
| mRNA Refseq | NM_001025248 |
| Protein Refseq | NP_001020419 |
| MIM | 601266 |
| UniProt ID | P33316 |
| Chromosome | 15q21.1 |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|-----------------|---|
| Location | |
| Pathway | Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Pyrimidine biosynthesis, organism-specific biosystem; Pyrimidine metabolism, organism-specific biosystem; Pyrimidine metabolism, organism-specific biosystem; Pyrimidine metabolism, conserved biosystem; |
| Function | dUTP diphosphatase activity; hydrolase activity; protein binding; |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA