

DUT Human

Description: DUT Human Recombinant fused with a 21 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 204 amino acids (70-252 a.a.) and having a molecular mass of 21.6kDa. The DUT is purified by proprietary chromatographic techniques.

Catalog #: ENPS-575

For research use only.

Synonyms: Deoxyuridine 5"-triphosphate nucleotidohydrolase mitochondrial, dUTPase, dUTP pyrophosphatase, Deoxyuridine Triphosphatase, DUT, FLJ20622.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MASTVGAAGW KGELPKAGGS
PAPGPETPAI SPSKRARPAE VGGMQLRFAR LSEHATAPTR GSARAAGYDL YSAYDYTIPT
MEKAVVKTDI QIALPSGCYR RVAPRSGLAH KHFIDVGAGV IDEYRGNVG VVLFNFGKEK
FEVKKGDRIA QLICERIFYP EIEEVQALDD TERGSGGFGS TGKN.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The DUT solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol, 1mM DTT and 0.1M NaCl.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

Deoxyuridine Triphosphatase (DUT) is a ubiquitous enzyme that functions in nucleotide metabolism. Deoxyuridine Triphosphatase, in the presence of magnesium ions, is responsible for hydrolyzing dUTP to dUMP and diphosphate. This reaction is imperative for keeping the intracellular dUTP concentration low so that uracil does not become incorporated into DNA. Extensive integration of uracil into DNA can eventually lead to cell death. This suggests that DUT is crucial for cell viability, further implying that it is a NeoBiolab target for anticancer therapy.

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