

Recombinant Human DUT

Catalog No: #GP13335



Package Size: #GP13335-1 100ug

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Description

Product Name	Recombinant Human DUT
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 1-164 amino acids of human DUT
Target Name	deoxyuridine triphosphatase
Other Names	dUTPase
Accession No.	Swissprot:P33316Gene Accession:BC033645
Uniprot	P33316
GeneID	1854;
Storage	-20~-80°C, pH 7.6 PBS

Background

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.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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