

全国订货电话 4008-723-722

DUT 抗原(重组蛋白)

中文名称: DUT 抗原(重组蛋白)

- 英文名称: DUT Antigen (Recombinant Protein)
- 别 名: dUTPase
- 储存: 冷冻(-20℃)
- 相关类别: 抗原

概述:

Fusion protein corresponding to a region derived from 1-164 amino acids of human DUT

技术规格:

Full name:	deoxyuridine triphosphatase
Synonyms:	dUTPase
Swissprot:	P33316
Gene Accession:	BC033645
Purity:	>85%, as determined by Coomassie blue stained SDS-PAGE
Expression system:	Escherichia coli
Tags:	His tag C-Terminus, GST tag N-Terminus
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 s erves 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 t o increased incorporation of uracil into DNA, which induces exten sive excision repair mediated by uracil glycosylase. This repair pro cess, resulting in the removal and reincorporation of dUTP, is self- defeating and leads to DNA fragmentation and cell death. Alterna tive splicing of this gene leads to different isoforms that localize t





o either the mitochondrion or nucleus. A related pseudogene is lo cated on chromosome 19.