

Recombinant Human dUTPase Protein

Catalog No. PKSH032364

Note: Centrifuge before opening to ensure complete recovery of vial contents.

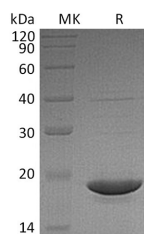
Description

Synonyms	Deoxyuridine 5'-Triphosphate Nucleotidohydrolase Mitochondrial;dUTPase;dUTP Pyrophosphatase;DUT
Species	Human
Expression Host	E.coli
Sequence	Met 1-Asn164
Accession	P33316-2
Calculated Molecular Weight	17.7 kDa
Observed molecular weight	17 kDa
Tag	None
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH7.4.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

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 down-stream applications. These effects make dUTPase useful in PCR fidelity and yield-sensitive applications. dUTPase is specific for dUTP and is

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critical for the fidelity of DNA replication and repair.