

# Recombinant Human dUTPase Protein (His Tag)

Catalog Number: PKSH032365



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

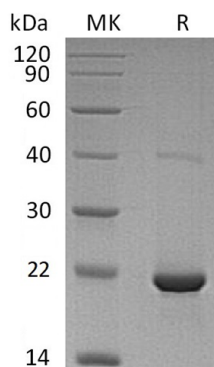
## Description

|                     |                            |
|---------------------|----------------------------|
| <b>Species</b>      | Human                      |
| <b>Mol_Mass</b>     | 20.0 kDa                   |
| <b>Accession</b>    | P33316-2                   |
| <b>Bio-activity</b> | Not validated for activity |

## Properties

|                       |                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.                                                                                                      |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                 |
| <b>Storage</b>        | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.                                                                      |
| <b>Shipping</b>       | 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. |
| <b>Formulation</b>    | Supplied as a 0.2 µm filtered solution of PBS, pH7.4.                                                                                           |
| <b>Reconstitution</b> | 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 critical for the fidelity of DNA replication and repair.

## For Research Use Only