

# Recombinant Human Dihydropyrimidinase/DPYS Protein

Catalog No.: RP03199

## Sequence Information

**Species**      **Gene ID**  
Human          1807

**Swiss Prot**    **Tags**  
Q14117          No tag

**Synonyms**  
DHP; DHPase; DPYS

## Product Information

**Source**          **Purification**  
Baculovirus-    ≥ 95 % as  
Insect Cells    determined by  
SDS-PAGE.

**Calculated MW** **Observed MW**  
56.8 kDa          50-60 kDa

**Endotoxin**  
< 1 EU/μg of the protein by LAL method.

**Formulation**  
Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 3 mM DTT, 10% glycerol, pH 8.0. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

**Reconstitution**  
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

DPYS, also known as dihydropyrimidinase, belongs to the DHOase family, hydantoinase/dihydropyrimidinase subfamily. DPYS catalyzes the second step of the reductive pyrimidine degradation, the reversible hydrolytic ring opening of dihydropyrimidines. It can catalyzes the ring opening of 5,6-dihydrouracil to N-carbamyl-alanine and of 5,6-dihydrothymine to N-carbamyl-amino isobutyrate. DPYS is expressed at a high level in liver and kidney as a major 2.5-kb transcript and a minor 3.8-kb transcript. Defects in the DPYS gene are linked to dihydropyrimidinuria.

## Basic Information

### Description

Recombinant Human Dihydropyrimidinase/DPYS Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Pro519) of Human Dihydropyrimidinase/DPYS (Accession #Q14117) fused with two additional amino acids (Gly&Pro) at the N-terminus.

### Activity

### Shipping

Lyophilized proteins are shipped at ambient temperature.  
Liquid proteins are shipped at frozen temperature with dry ice.  
Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

## Contact

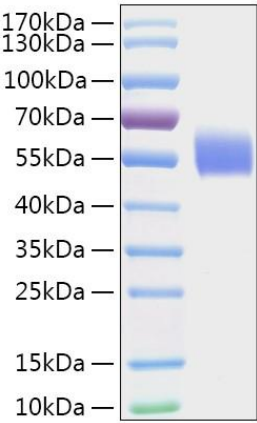
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**Validation Data**

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Recombinant Human Dihydropyrimidinase/DPYS Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.