

Product Data Sheet

Screening Libraries

D
\neg
0
Ŏ.
Œ
<u>-</u> .
_
S

TROTERTIES	
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 20 mM Tris, 500 mM NaCl, 3 mM DTT, 10% Glycerol, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$ in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

DPYS Protein, Human (sf9)

HY-P75713

Sf9 insect cells

1807

Q14117 (N-G&P, M1-P519)

Approximately 54 kDa

Dihydropyrimidinase; DHP; DHPase; Hydantoinase; DPYS

Cat. No.:

Species:

Source: Accession:

Gene ID:

Molecular Weight:

PROPERTIES

Synonyms:

Background

Dihydropyrimidinase (DPYS) is an enzyme that plays a crucial role in the reductive pyrimidine degradation pathway, catalyzing the reversible hydrolytic ring opening of dihydropyrimidines. Specifically, DPYS can catalyze the ring opening of 5,6-dihydrouracil to N-carbamyl-alanine and 5,6-dihydrothymine to N-carbamyl-amino isobutyrate. This enzymatic activity is a key step in the catabolism of pyrimidine derivatives, contributing to the breakdown of nucleotide and nucleic acid metabolites. The versatility of DPYS in the hydrolytic ring opening of dihydropyrimidines highlights its significance in maintaining pyrimidine homeostasis and the recycling of pyrimidine-related compounds within the cell. Understanding the functions of DPYS provides insights into the regulation of pyrimidine metabolism and its implications for cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Page 1 of 1