Creative Enzymes®

Diaphorase 22 from Recombinant E.coli

Cat. No. NATE-1938

Lot. No. (See product label)

Introduction

Description	Recombinant Diaphorase 2.2 from E. coli for advanced research on redox reactions and enzymatic activity. Ideal for biochemistry and molecular biology studies. Creative Enzymes ensures high-purity, reliable solutions.
Synonyms	LDP-Glc; LDP-Val; dehydrolipoate dehydrogenase; diaphorase; dihydrolipoamide dehydrogenase; dihydrolipoamide:NAD+ oxidoreductase; dihydrolipoic dehydrogenase; dihydrothioctic dehydrogenase; lipoamide dehydrogenase (NADH); lipoamide oxidoreductase (NADH); lipoamide reductase; lipoamide reductase (NADH); lipoate dehydrogenase; lipoic acid dehydrogenase; lipoyl dehydrogenase; protein-6-N-(dihydrolipoyl)lysine:NAD+ oxidoreductase

Product Information

Source	E. coli
Form	Lyophilized
EC Number	EC 1.8.1.4
CAS No.	9001-18-7
Molecular Weight	ca. 110,000
Activity	>150 U/mg protein
Contaminants	(as Diaphorase activity = 100 %) Adenylate kinase < 0.01 % NADH oxidase < 0.20 %
pH Stability	6.0 – 9.0
Optimum pH	8
Thermal stability	No detectable decrease in activity up to 70 °C.
Michaelis Constant	(50 mM HEPES buffer, pH 7.0, at 30 °C) 3-(4,5-Dimethyl-2-thiazolyl)-2,5-diphenyl-2H-tetrazolium bromide (MTT) 0.345 mM NADH 0.033 mM
Unit Definition	One unit of activity is defined as the amount of Diaphorase that forms 1 µmol of NAD+ per minute at 30 °C.

Storage and Shipping Information

Storage	Store at -20°C