Creative Enzymes®

Native Glutamate dehydrogenase (NADP+) from Yeast

Cat. No. NATE-1037

Lot. No. (See product label)

Introduction

Description	Glutamate dehydrogenase (GLDH) is an enzyme, present in most microbes and the mitochondria of eukaryotes, as are some of the other enzymes required for urea synthesis, that converts glutamate to α-ketoglutarate, and vice versa. In animals, the produced ammonia is usually used as a substrate in the urea cycle. Typically, the α-ketoglutarate to glutamate reaction does not occur in mammals, as glutamate dehydrogenase equilibrium favours the production of ammonia and α-ketoglutarate.
Synonyms	glutamate dehydrogenase (NADP+); glutamic dehydrogenase; dehydrogenase; glutamate (nicotinamide adenine dinucleotide (phosphate)); glutamic acid dehydrogenase; L-glutamate dehydrogenase; L-glutamic acid dehydrogenase; NAD(P)-glutamate dehydrogenase; NAD(P)H-dependent glutamate dehydrogenase; glutamate dehydrogenase (NADP); EC 1.4.1.4; GLDH

Product Information

Source	Yeast
Form	Lyophilized Powder
EC Number	EC 1.4.1.4
CAS No.	2604121
Activity	> 10 U/mg protein
Contaminants	(as GlDH activity = 100%) Glucose-6-phosphate dehydrogenase < 0.1 % Phosphogluconate dehydrogenase < 0.5 % Glutamate dehydrogenase (NAD+) < 0.1 % Glutathione reductase < 0.1 % NADPH oxidase < 0.01 %

Storage and Shipping Information

Storage	Below -20°C