Creative Enzymes®

α,γ-Homocysteinase from Trichomonas vaginalis, Recombinant

Cat. No. NATE-1640

Lot. No. (See product label)

Introduction

Description	Recombinant Homocysteine α,γ-lyase is a pyridoxal-5'-phosphate dependent enzyme. It is a mutant of homocysteinase from Trichomonas vaginalis encoded by mgl1 gene, containing three point mutations, such as; Phe47Leu, Asp172Glu, Ser308Tyr. The enzyme can metabolize homocysteine into α-keto butyrate, hydrogen sulfide and ammonia.
Synonyms	α,γ-Homocysteinase; Methionine gamma-lyase; mgl1

Product Information

Species	Trichomonas vaginalis
Source	E. coli and fused to His-tag at N-terminus
Form	Lyophilized
Formulation	In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol
Molecular Weight	43 kDa
Purity	> 95% by SDS-PAGE
Activity	> 5 mU/mg
Unit Definition	One Unit enzyme converts 1 μmole of homocysteine into hydrogen sulfide, per minute at 25°C and pH 8.1 in the presence of pyridoxal phosphate.

Usage and Packaging

Reconstitution	Reconstitute in 40 mM Sodium phosphate buffer, pH 8.1.

Storage and Shipping Information

Storage	Reconstituted enzyme can be stored in working aliquots at -20°C and use within 3 months. Avoid repeated freeze-thaw cycles.