

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 μ mole 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.