

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.