Recombinant Human Cystathionine γ-Lyase/CTH Protein

Catalog No. PKSH032319

Note: Centrifuge before opening to ensure complete recovery of vial contents.

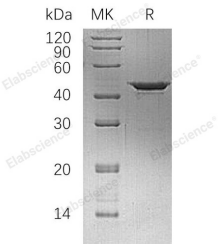
Description

Synonyms	Cystathionine Gamma-Lyase;Cysteine-Protein Sulfhydrase;Gamma-Cystathionase;CTH
Species	Human
Expression Host	E.coli
Sequence	Met 1-Ser405
Accession	P32929
Calculated Molecular Weight	44.7 kDa
Observed molecular weight	38-50 kDa
Tag	None
Bioactivity	Not validated for activity

Properties

Purity	> 85 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 8% Sucrose, 0.05% Tween 80, pH8.0.
Reconstitution	Not Applicable

Data



> 85 % as determined by reducing SDS-PAGE.

Background

Cystathionine Gamma-Lyase (CTH) belongs to the trans-sulfuration enzymes family. CTH exists as a homotetramer and interacts with CALM in a calcium-dependent manner. CTH breaks down cystathionine into cysteine, ammonia and 2-oxobutanoate. CTH catalyzes the last step in the trans-sulfuration pathway from methionine to cysteine and has broad substrate specificity. Defects in CTH will lead to cystathioninuria, which is an autosomal recessive phenotype

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characterized by abnormal accumulation of plasma cystathionine.

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