

# Recombinant Human Cystathionine $\gamma$ -Lyase/CTH Protein

Catalog Number: PKSH032319



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

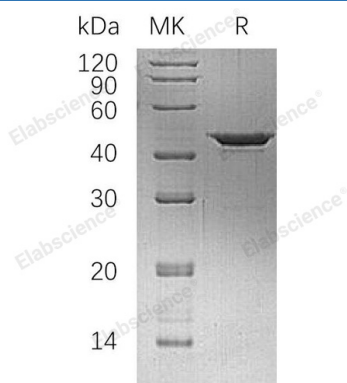
## Description

<b>Species</b>	Human
<b>Mol_Mass</b>	44.7 kDa
<b>Accession</b>	P32929
<b>Bio-activity</b>	Not validated for activity

## Properties

<b>Purity</b>	> 85 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	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.
<b>Formulation</b>	Supplied as a 0.2 $\mu$ m filtered solution of 20mM Tris-HCl, 8% Sucrose, 0.05% Tween 80, pH8.0.
<b>Reconstitution</b>	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 characterized by abnormal accumulation of plasma cystathionine.

## For Research Use Only