

## 32-8176: Recombinant Human Cystathionine gamma-Lyase/CTH

**Gene :** CTH  
**Gene ID :** 1491  
**Uniprot ID :** P32929

### Description

Source: E. coli.  
MW :44.7kD.

Recombinant Human Cystathionine Gamma-Lyase is produced by our E.coli expression system and the target gene encoding Met1-Ser405 is expressed. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM PB,150mM NaCl,20% Glycerol,pH7.4.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** GHMQEKDASSQGFLPHFQHFATQAIHVGQDPEQWTSRAVPPISLSTTFKQGAPGQHSQFEYSRSGNPTRNC  
LEKAVAALDGAKEYCLAFASGLAATVTITHLLKAGDQIICMDDVYGGTNRVFRQVASEFGLKISFVDCSKIKLLEAA  
ITPETKLVWIETPTNPTQKVIDIEGCAHIVHKKHGDIIILVVDNTFMSPYFQRPLALGADISMYSATKYMNGHSDVVM  
GLVSVNCESLHNRLRFLQNSLGAVPSPIDCYLCNRGLKTLHVRMEKHFKNGMAVAQFLESNPWVEKVIYPGLPS  
HPQHELVKRQCTGCTGMVTFYIKGTLQHAEIFLKNLKLFTLAESLGGFESLAELPAIMTHASVLKNDRDVVGISD  
TLIRLSVGLEDEEDLLEDLDQALKAHPPSGSHS

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.