

## Recombinant Human AMT cell lysate

Cat. No. AMT-72HCL    Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Species        | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Description    | The enzyme system for cleavage of glycine (glycine cleavage system; EC 2.1.2.10), which is confined to the mitochondria, is composed of 4 protein components: P protein (a pyridoxal phosphate-dependent glycine decarboxylase; MIM 238300), H protein (a lipoic acid-containing protein; MIM 238330), T protein (a tetrahydrofolate-requiring enzyme), and L protein (a lipoamide dehydrogenase; MIM 238331). Glycine encephalopathy (GCE; MIM 605899) may be due to a defect in any one of these enzymes. |
| Size           | 100 ul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Storage Buffer | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)                                                                                                                                                                                                                                                                                                                                                                                                   |
| Applications   | Western Blot;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

### GENE INFORMATION

|                 |                                                                              |
|-----------------|------------------------------------------------------------------------------|
| Gene Name       | AMT aminomethyltransferase [ Homo sapiens ]                                  |
| Official Symbol | AMT                                                                          |
| Synonyms        | AMT; aminomethyltransferase; aminomethyltransferase (glycine cleavage system |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                            |                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | protein T); aminomethyltransferase, mitochondrial; GCST; glycine cleavage system protein T; NKH; glycine cleavage system T protein; GCE; GCVT;                                                                                                                                                                                                                                                            |
| <b>Gene ID</b>             | 275                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>         | NM_000481                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>      | NP_000472                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>                 | 238310                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | P48728                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 3p21.2-p21.1                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Pathway</b>             | Glycine, serine and threonine metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; One Carbon Metabolism, organism-specific biosystem; One carbon pool by folate, organism-specific biosystem; One carbon pool by folate, conserved biosystem; glycine cleavage complex, organism-specific biosystem; |
| <b>Function</b>            | aminomethyltransferase activity; transaminase activity; transferase activity;                                                                                                                                                                                                                                                                                                                             |