

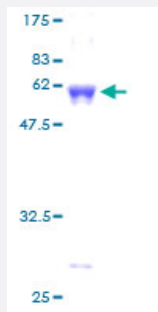
Full-Length

AMT (Human) Recombinant Protein (P01)

Catalog # H00000275-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human AMT full-length ORF (AAH07546, 1 a.a. - 289 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MESLVVGDIAELRPNQGTLSLFTNEAGGILDDLIVTNTSEGHLYVVSNAGCWEKDLALMQDKVRE
LQNQGRDVGLEVLNALLALQGPTAAQVLQAGVADDLRKLPFMTSAVMEVFGVSGCRVTRCGY
TGEDGVEISVPVAGAVHLATAILKNPEVKLAGLAARDSLRLEAGLCLYGNDIDEHTTPVEGSLSWT
LGKRRRAAMDFPGAKVIVPQLKGRVQRRRVGLMCEGAPMRAHSPILNMEGTKIGTVTSGCPSPS
LKKNVAMGYVPCEYSRPGTMLLVELPSGPCF

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

57.53

Interspecies Antigen Sequence

Mouse (89); Rat (91)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — AMT

Entrez GeneID[275](#)**GeneBank Accession#**[BC007546](#)**Protein Accession#**[AAH07546](#)**Gene Name**

AMT

Gene Alias

GCE, GCST, NKH

Gene Description

aminomethyltransferase

Omim ID[238310 605899](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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.[supplied by OMIM]

Other Designations

glycine cleavage system protein T

Pathway

- [Glycine](#)
- [Metabolic pathways](#)
- [Nitrogen metabolism](#)
- [One carbon pool by folate](#)

Disease

- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hyperglycinemia](#)
- [Lung Neoplasms](#)
- [Pulmonary Disease](#)
- [Schizophrenia](#)
- [Spinal Dysraphism](#)
- [Werner syndrome](#)