Recombinant human AMT protein

Catalog Number: ATGP3051

PRODUCT INFORMATION

Expression system
E.coli

Domain
29-403aa

UniProt No.
P48728

NCBI Accession No.
NP_000472

Alternative Names
Aminomethyltransferase mitochondrial isoform 1, Aminomethyltransferase, mitochondrial isoform 1, GCE, GCST, GCVT, NKH

PRODUCT SPECIFICATION

Molecular Weight
43.3 kDa (398aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol, 1mM DTT

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
AMT also known as Aminomethyltransferase, mitochondrial isoform 1. AMT is a component of the glycine cleavage system termed T-protein, reversibly catalyzes the degradation of the aminomethyl moiety of glycine attached to the lipoate cofactor of H-protein, resulting in the production of ammonia, 5, 10-methylenetetrahydrofolate, and dihydrolipoate-bearing H-protein in the presence of tetrahydrofolate. Recombinant human AMT was expressed in E. coli and purified by using conventional chromatography

techniques

Amino acid Sequence

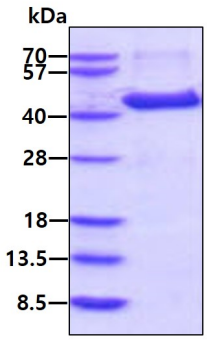
<MGSSHHHHHH SSGLVPRGSH MGS>AQEVLRR TPLYDFHLAH GGKMVAFAGW SLPVQYRDSH TDSHLHTRQH CSLFDVSHML QTKILGSDRV KLMESLVVGD IAELRPNQGT LSLFTNEAGG ILDDLIVTNT SEGHLYVVSN AGCWEKDLAL MQDKVRELQN QGRDVGLEVL DNALLALQGP TAAQVLQAGV ADDLRKLPFM TSAVMEVFGV SGCRVTRCGY TGEDGVEISV PVAGAVHLAT AILKNPEVKL AGLAARDSLR LEAGLCLYGN DIDEHTTPVE GSLSWTLGKR RRAAMDFPGA KVIVPQLKGR VQRRRVGLMC EGAPMRAHSP ILNMEGTKIG TVTSGCPSPS LKKNVAMGYV PCEYSRPGTM LLVEVRRKQQ MAVVSKMPFV PTNYYTLK

General References

Narisawa A., et al. (2012) Hum. Mol. Genet. 21 (7), 1496-1503
Kure S., et al. (2006) Hum. Mutat. 27 (4), 343-352

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.