Recombinant Full Length Human ABAT Protein, GST-tagged

Cat. No. ABAT-762HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ABAT full-length ORF (AAH08990, 1 a.a. - 116 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	116 amino acids
Description	4-aminobutyrate aminotransferase (ABAT) is responsible for catabolism of gamma-aminobutyric acid (GABA), an important, mostly inhibitory neurotransmitter in the central nervous system, into succinic semialdehyde. The active enzyme is a homodimer of 50-kD subunits complexed to pyridoxal-5-phosphate. The protein sequence is over 95% similar to the pig protein. GABA is estimated to be present in nearly one-third of human synapses. ABAT in liver and brain is controlled by 2 codominant alleles with a frequency in a Caucasian population of 0.56 and 0.44. The ABAT deficiency phenotype includes psychomotor retardation, hypotonia, hyperreflexia, lethargy, refractory seizures, and EEG abnormalities. Multiple alternatively spliced transcript variants encoding the same protein isoform have been found for this gene. [provided by RefSeq, Jul 2008]
Molecular Mass	38.5 kDa
AA Sequence	MENHHSPKGQ RRFQRKGVIG AVFCRMSQSS PSRQGKEGCC REGTAYAKAY QFMASHLSLG KPVSTGSIPR FNKALFNKQA KCKPNHYSFI GLSMLSPENF

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	SIGCKYSVWF SETKGF
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	ABAT 4-aminobutyrate aminotransferase [Homo sapiens]
Official Symbol	ABAT
Synonyms	ABAT; 4-aminobutyrate aminotransferase; 4-aminobutyrate aminotransferase, mitochondrial; 4 aminobutyrate transaminase; GABAT; GABA transferase; GABA transaminase; GABA aminotransferase; 4-aminobutyrate transaminase; gamma-amino-N-butyrate transaminase; (S)-3-amino-2-methylpropionate transaminase; NPD009; GABA-AT; FLJ17813; FLJ30272
Gene ID	18
mRNA Refseq	NM_020686
Protein Refseq	NP_065737
MIM	137150

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UniProt ID	P80404

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