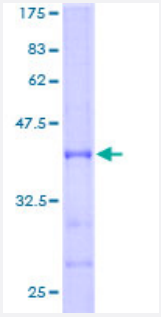
Full-Length | Sm Size

ABAT (Human) Recombinant Protein (P01)

Catalog # H00000018-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ABAT full-length ORF (AAH08990, 1 a.a. - 116 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MENHHSPKGQRRFQRKGVIGAVFCRMSQSSPSRQGKEGCCREGTAYAKAYQFMASHLSLGKP VSTGSIPRFNKALFNKQAKCKPNHYSFIGLSMLSPENFSIGCKYSVWFSETKGF
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	38.5
Interspecies Antigen Sequence	Mouse (38); Rat (38)
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.

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Applications

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

Gene Info — ABAT

Entrez GeneID	18
GeneBank Accession#	BC008990
Protein Accession#	AAH08990
Gene Name	ABAT
Gene Alias	FLJ17813, GABA-AT, GABAT, NPD009
Gene Description	4-aminobutyrate aminotransferase
Omim ID	137150
Gene Ontology	Hyperlink
Gene Summary	4-aminobutyrate aminotransferase (ABAT) is responsible for catabolism of gamma-aminobutyric acid (GABA), an important, mostly inhibitory neurotransmitter in the central nervous system, into s uccinic semialdehyde. The active enzyme is a homodimer of 50-kD subunits complexed to pyrido xal-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 co dominant alleles with a frequency in a Caucasian population of 0.56 and 0.44. The ABAT deficien cy phenotype includes psychomotor retardation, hypotonia, hyperreflexia, lethargy, refractory seizu res, and EEG abnormalities. Multiple alternatively spliced transcript variants encoding the same p rotein isoform have been found for this gene. [provided by RefSeq
Other Designations	GABA aminotransferase|GABA transferase|gamma-amino-N-butyrate transaminase

Pathway

- Alanine

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- beta-Alanine metabolism
- Butanoate metabolism
- Metabolic pathways
- Propanoate metabolism
- Valine

Disease

- Asperger Syndrome
- Autistic Disorder
- Dyskinesia
- Genetic Predisposition to Disease
- Narcolepsy
- Schizophrenia
- Social Perception
- Tobacco Use Disorder

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