

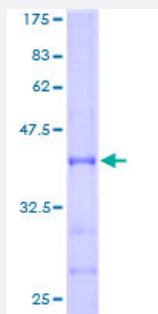
Full-Length

ABAT (Human) Recombinant Protein (P01)

Catalog # H00000018-P01

Size 10 ug, 25 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	MENHHSPKGQRRFQRKGVIGAVFCRMSQSSPSRQGKEGCCREGTAYAKAYQFMASHLSLGKPVSTGSIPRFNKALFNKQAKCKPNHYSFIGLSMLSPENFSIGCKYSVWFSETKGF
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.

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 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 co dominant 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]

Other Designations GABA aminotransferase|GABA transferase|gamma-amino-N-butyrate transaminase

Pathway

- [Alanine](#)

- [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](#)