Recombinant Rat Abat Protein, His-tagged

Cat. No. Abat-09R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Abat Protein (Ile236-Lys500) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Ile236-Lys500
Description	Enables 4-aminobutyrate transaminase activity. Involved in several processes, including gamma-aminobutyric acid biosynthetic process; positive regulation of inhibitory postsynaptic potential; and regulation of secretion. Located in mitochondrial matrix and neuron projection. Used to study several diseases, including Huntington's disease; epilepsy (multiple); heroin dependence; ischemia; and mental depression. Biomarker of Parkinsonism. Human ortholog(s) of this gene implicated in Alzheimer's disease; GABA aminotransferase deficiency; and Huntington's disease. Orthologous to human ABAT (4-aminobutyrate aminotransferase).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.8 kDa Accurate Molecular Mass: 34 kDa
Purity	> 90%

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

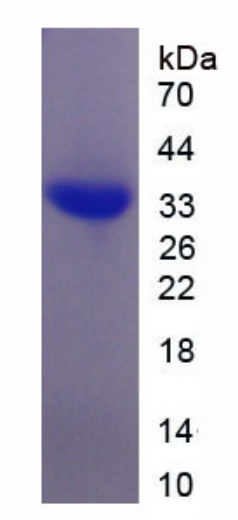
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Abat 4-aminobutyrate aminotransferase [Rattus norvegicus (Norway rat)]
Official Symbol	Abat
Synonyms	ABAT; 4-aminobutyrate aminotransferase; 4-aminobutyrate aminotransferase, mitochondrial; GABA-T; GABA-AT; L-AIBAT; GABA transaminase; GABA aminotransferase; gamma-amino-N-butyrate transaminase; (S)-3-amino-2-methylpropionate transaminase; Gabat; beta-AlaAT; MGC93392
Gene ID	81632
mRNA Refseq	NM_031003
Protein Refseq	NP_112265

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UniProt ID	P50554



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