

Recombinant Human OAT protein, His & T7-tagged

Cat. No. OAT-1039H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human OAT aa. (Met1~Phe301 (Accession # P04181) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Phe301
Description	This gene encodes the mitochondrial enzyme ornithine aminotransferase, which is a key enzyme in the pathway that converts arginine and ornithine into the major excitatory and inhibitory neurotransmitters glutamate and GABA. Mutations that result in a deficiency of this enzyme cause the autosomal recessive eye disease Gyrate Atrophy. Alternatively spliced transcript variants encoding different isoforms have been described. Related pseudogenes have been defined on the X chromosome.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 36.6kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 5.2.

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Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	OAT ornithine aminotransferase [Homo sapiens (human)]
Official Symbol	OAT
Synonyms	OAT; ornithine aminotransferase; OKT; GACR; HOGA; OATASE; ornithine aminotransferase, mitochondrial; gyrate atrophy; ornithine delta-aminotransferase; ornithine-oxo-acid aminotransferase; testicular tissue protein Li 130
Gene ID	4942
mRNA Refseq	NM_000274.3
Protein Refseq	NP_000265.1

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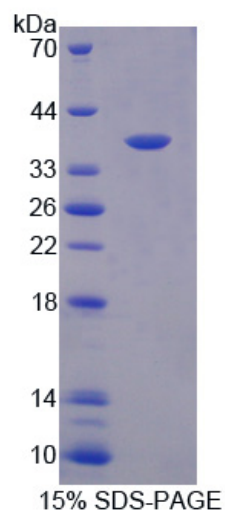
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UniProt ID

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SDS-PAGE

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