

Recombinant Human Ornithine Aminotransferase

Cat. No. OAT-493H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human OAT protein was expressed in <i>E. coli</i> and purified by using conventional chromatography techniques. MW = 45.2 kDa (408aa).
Species	Human
Source	<i>E. coli</i>
Protein Length	33-439 aa
Description	OAT, also known as mitochondrial enzyme ornithine aminotransferase, is a key enzyme in the pathway that converts arginine and ornithine into the major excitatory and inhibitory neurotransmitters glutamate and GABA. (L-ornithine + a 2-oxo acid = L-glutamate 5-semialdehyde + an L-amino acid.) Mutations that result in a deficiency of this enzyme cause the autosomal recessive eye disease Gyrate Atrophy.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol.
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MTVQGPPTSD DIFEREYKYG AHNYHPLPVA LERGKGIYLW DVEGRKYFDF LSSYS AVNQG HCHPKIVNAL KSQVDKLT LT SRAFYNNVLGEYEEYITKLF NYHKVLPMNT GVEAGETACK LARKWGYTVK GIQKYKAKIV FAAGNFWGRT LSAISSSTDP TSYDGGFGPFM PGFDIIPYNDLPALERALQD PNVA AFMVEP

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IQGEAGVVVP DPGYLMGVRE LCTRHQVLFI ADEIQTGLAR TGRWLAVDYE
 NVRPDIVLLG KALSGGLYPVSAVLCDDDIM LTIKPGEHGS TYGGNPLGCR
 VAIAALEVLE EENLAENADK LGIILRNELM KLPSDVVTAV RGKGLLNAIV
 IKETKDWDAAWKVCLRLRDNG LLAKPTHGDI IRFAPPLVIK EDELRESIEI INKTILSF.

Storage

can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

OAT ornithine aminotransferase [Homo sapiens]

Synonyms

ornithine aminotransferase; HOGA; OATASE; DKFZp781A11155; OAT; ornithine aminotransferase, mitochondrial; gyrate atrophy; ornithine-delta-aminotransferase; ornithine-oxo-acid aminotransferase; ornithine--oxo-acid aminotransferase; ornithine aminotransferase (gyrate atrophy); EC 2.6.1.13

Gene ID

4942

mRNA Refseq

NM_000274

Protein Refseq

NP_000265

MIM

258870

UniProt ID

P04181

Chromosome Location

10q26

Pathway

Arginine and proline metabolism; Metabolic pathways; Metabolism of amino acids and

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derivatives

Function

ornithine-oxo-acid transaminase activity; protein binding; pyridoxal phosphate binding; transferase activity

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