

Recombinant Human OAT

Cat. No. OAT-30516TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant OAT protein was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	33-439aa
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	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol
Molecular Mass	45.2 kDa (408aa), confirmed by MALDI-TOF.
AA Sequence	MTVQGPPTSD DIFEREYKYG AHNYHPLPVA LERGKGIYLW DVEGRKYFDF LSSYSAVNQG HCHPKIVNAL KSQVDKLTLT SRAFYNNVLGEYEEYITKLF NYHKVLPMT GVEAGETACK LARKWGYTVK GIQKYKAKIV FAAGNFWGRT LSAISSSTDP TSYDGFPGPFM PGFDIIPYNDLPALERALQD PNVAAFMVEP IQGEAGVVVP DPGYLMGVRE LCTRHQVLFI ADEIQTGLAR TGRWLAVDYE

 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

NVRPDIVLLG KALSGGLYPVSAVLCDDDDIM LTIKPGEHGS TYGGNPLGCR
 VAIAALEVLE EENLAENADK LGIILRNELM KLPSDVVTAV RGKGLLNAIV
 IKETKDWDAAWKVCLRLRDNG LLAKPTHGDI IRFAPPLVIK EDELRESIEI INKTILSF

Purity > 90% by SDS - PAGE

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.

Concentration 1.0 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name OAT ornithine aminotransferase [Homo sapiens (human)]

Official Symbol OAT

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

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Chromosome Location	10q26
Pathway	Arginine and proline metabolism; Metabolic pathways; Metabolism of amino acids and derivatives
Function	ornithine-oxo-acid transaminase activity; pyridoxal phosphate binding

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