

OAT recombinant protein

OAT, 33-439aa, Human, E Coli

CATALOG # AAA48621	HOST E Coli	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

OAT; 33-439aa; Human; E Coli; ornithine aminotransferase precursor; DKFZp781A11155; HOGA; OATASE; ornithine aminotransferase precursor EC 2.6.1.13; ornithine aminotransferase (gyrate atrophy); Ornithine aminotransferase; mitochondrial precursor; Ornithine oxo-acid aminotransferase; Ornithine--oxo-acid aminotransferase.; OAT recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 85% by SDS-PAGE
Form/Format	Liquid. 20mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MTVQGPPTSD DIFEREYKYG AHNYHPLPVA LERGKGIYLW DVEGRKYFDF LSSYSAVNQG HCHPKIVNAL KSQVDKLTLT SRAFYNNVLG EYEEYITKLF NYHKVLPMT GVEAGETACK LARKWGYTVK GIQKYKAKIV FAAGNFWGRT LSAISSSTDP TSYDGFPGFM PGFDIIPYND LPALERALQD PNVAAFMVEP IQGEAGVVVP DPGYLMGVRE LCTRHQVLF ADEIQTGLAR TGRWLAVDYE NVRPDIVLLG KALSGGLYPV SAVLCDDDIM LTIKPGEHGS TYGGNPLGCR VAIAALEVLE EENLAENADK LGIILRNELM KLPSDVVTAV RGKGLLNAIV IKETKDWDWA KVCLRLRDNG LLAKPETHGDI IRFAPPLVIK EDELRESIEI INKTILSF
Sequence Length	439
Applicable Applications for OAT recombinant protein	SDS-PAGE
Domain	33-439aa
Endotoxin Level	< 1 EU per 1ug of protein (determined by LAL method)
Tag	Non-tagged
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Can be stored at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for OAT recombinant protein	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. Recombinant OAT protein was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for OAT recombinant protein	Enzymes & Proteases
References	Mitchell GA., et al. (1988) J. Biol. Chem. 263 (28):14288-95.; Shah SA., et al. (1997) Structure. 5 (8):1067-75;

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557809
NCBI GeneID	4942
NCBI Accession #	NP_000265
NCBI GenBank Nucleotide #	NM_000274.3
UniProt Accession #	P04181; Q16068; Q16069; Q68CS0; Q6IAV9; Q9UD03; D3DRF0
Molecular Weight	45.2 kDa (408aa), confirmed by MALDI-TOF.
NCBI Official Full Name	ornithine aminotransferase, mitochondrial isoform 1
NCBI Official Synonym Full Names	ornithine aminotransferase
NCBI Official Symbol	OAT
NCBI Official Synonym Symbols	OKT; GACR; HOGA; OATASE
NCBI Protein Information	ornithine aminotransferase, mitochondrial
UniProt Protein Name	Ornithine aminotransferase, mitochondrial
UniProt Gene Name	OAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.