

AR09344PU-N

Human OAT (33-439) - Purified

Alternate names:

Ornithine aminotransferase mitochondrial, Ornithine--oxo-acid aminotransferase

Quantity:

0.1 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[P04181](#)

NCBI:

[NP_000265](#)

GeneID:

[4942](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Description:

Recombinant OAT protein was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MTVQGPPTSD DIFEREYKYG AHNYHPLPVA LERGKGIYLW DVEGRKYFDF LSSYSVAVNQG
HCHPKIVNAL KSQVDKLTLT SRAFYNNVLG EYEEYITKLF NYHKVLPMT GVEAGETACK
LARKWGYTVK GIQKYKAKIV FAAGNFWGRT LSAISSSTDP TSYDGFPGFM PGFDIIPYND
LPALERALQD PNVAAFMVEP IQGEAGVVVP DPGYLMGVRE LCTRQVLF I ADEIQTGLAR
TGRWLAVDYE NVRPDIVLLG KALSGGLYPV SAVLCDDDIM LTIKPGEHGS TYGGNPLGCR
VAIAALEVLE EENLAENADK LGIILRNELM KLPSDVVTAV RGKGLLNAIV IKETKDWDWA
KVCLRLRDNG LLAKPTHGDI IRFAPPLVIK EDELRESIEI INKTILSF

Molecular weight: 45.2 kDa (408 aa)

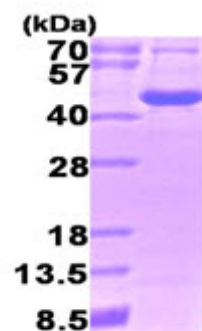
Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human OAT, 33-439 aa:
15% SDS-PAGE (3 μ g)

