

OAT, 33-439aa, Human, E.coli

Cat.NO.: TP03240

3th Edition

Synonyms:ornithine aminotransferase precursor, DKFZp781A11155, HOGA, OATASE

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

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol

Molecular Weight:45.2 kDa (408aa)

Sequences:

MTVQGPPTSDDIFEREYKYGAHNYHPLPVALERKGGIYLWDVEGRKYFDLSSYSAVNQGHCHPKIVNALKSQVVK
LTLTSRAFYNVNLGEYEEYITKLFNYHKVLPMTGVEAGETACKLARKWGYTVKGIQKYKAKIVFAAGNFWGRTL
ISSSTDPTSVDGFGPFMPGFDIIPYNDLPALERALQDPNVA AFMVEPIQGEAGVVVDPDGYLMGVRELCTR
HQVLFIADEIQTGLARTGRWLAVDYENVRPDIVLLGKALSGGLYPVSAVLCDDDDIMLTIKPGEHGSTYGGNPLGCRVAIAALE
VLEENLAENADKLGILRNELMKLPSDVVTAVRGKLLNAIVIKETKDWDAWKVCLRLRDNGLLAKPTHGDIIRFAP
PLVIKEDELRESIEIINKTILSF

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.