

Product datasheet for PH301610

ornithine aminotransferase (OAT) (NM_000274) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	OAT MS Standard C13 and N15-labeled recombinant protein (NP_000265)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201610
Predicted MW:	48.5 kDa
Protein Sequence:	>RC201610 protein sequence Red=Cloning site Green=Tags(s) MFSKLAHLQRFVLSRGVHSSVASATSVA TKKTVQGPPTSDDIFEREYKYGAHNYHPLPVALERKGIYL WDVEGRKYFDLSSYSAVNQGHCHPKIVNALKSQVDKLTLSRAFYNVNLGEYEEYITKLFNYHKVLP MN TGVEAGETACKLARKWGYTVKGIQKYKAKIVFAAGNFWGRTL SAISSSTDPTSYDGFPGFMPGFDIIPYN DLPALERALQDPNVA AFMVEPIQGEAGVVVDPGYLMGVRELCTR HQVLFIADEIQTGLARTGRWLAVDY ENVRPDI VLLGKALSGGLYPVSAVLCDDDI MLTIKPGEHGSTYGGNPLGCRVAIAALEVLEEENLAENAD KLGII LRNLMKLP SDVVTAVRGKLLNAIVIKETKDWDAWKVCLRLRDNGLLAKPTHGDIIRFAPPLVI KEDELRESIEIINKTILSF TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000265</u>
RefSeq Size:	2102
RefSeq ORF:	1317
Synonyms:	GACR; HOGA; OATASE; OKT



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Locus ID: 4942

UniProt ID: [P04181](#), [A0A140VIQ4](#)

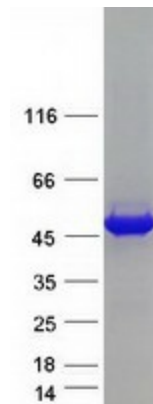
Cytogenetics: 10q26.13

Summary: 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. [provided by RefSeq, Jan 2010]

Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified OAT protein (Cat# [TP301610]). The protein was produced from HEK293T cells transfected with OAT cDNA clone (Cat# [RC201610]) using MegaTran 2.0 (Cat# [TT210002]).