

Product datasheet for PH301757

Aspartate Aminotransferase (GOT1) (NM_002079) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GOT1 MS Standard C13 and N15-labeled recombinant protein (NP_002070)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201757
Predicted MW:	46.2 kDa
Protein Sequence:	>RC201757 protein sequence Red=Cloning site Green=Tags(s)

MAPPSVFAEVPQAQPVLVFKLTADFREDPDRKVNLVGGAYRTDDCHPWVLPVVKKVEQKIANDNSLNHE
YLPILGLAEFRSCASRLALGDDSPALKEKRVGGVQSLGGTGALRIGADFLARWYNGTNNKNTPVYVSSPT
WENHNNAVFSAAAGFKDIRSYRYWDAEKRGLDLQGFLNDLENAPEFSIVVLHACAHNPTGIDPTPEQWKQIA
SVMKHRFLFPFFDSAYQGFASGNLERDAWAIRYFVSEGFEEFFCAQSFSKNFGLYNERVGNLTVVGKEPES
ILQVLSQMEKIVRITWSNPPAQGARIVASTLSNPELFEEWTGNVKTMDRILTMRSELRARLEALKTPGT
WNHITDQIGMFSFTGLNPKQVEYLVNEKHIYLLPSGRINVSGLTTKNLDYVATSIHEAVTKIQ

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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_002070</u>
RefSeq Size:	2140
RefSeq ORF:	1239
Synonyms:	AST1; ASTQTL1; cAspAT; cCAT; GIG18
Locus ID:	2805



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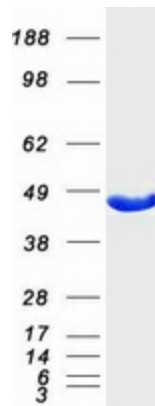
UniProt ID: [P17174](#), [A0A140VK69](#)

Cytogenetics: 10q24.2

Summary: Glutamic-oxaloacetic transaminase is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and mitochondrial forms, GOT1 and GOT2, respectively. GOT plays a role in amino acid metabolism and the urea and tricarboxylic acid cycles. The two enzymes are homodimeric and show close homology. [provided by RefSeq, Jul 2008]

Protein Pathways: Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, Cysteine and methionine metabolism, Metabolic pathways, Phenylalanine, tyrosine and tryptophan biosynthesis, Phenylalanine metabolism, Tyrosine metabolism

Product images:



Coomassie blue staining of purified GOT1 protein (Cat# [TP301757]). The protein was produced from HEK293T cells transfected with GOT1 cDNA clone (Cat# [RC201757]) using MegaTran 2.0 (Cat# [TT210002]).