

Product datasheet for **TP506497**

Got1 (NM_010324) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse glutamic-oxaloacetic transaminase 1, soluble (Got1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR206497 protein sequence Red =Cloning site Green =Tags(s)

MAPPSVFAQVPQAPPVLVFKLTADFRDDPDPRKVN LGVGAYRTDESQPWVLPVWRKVEQKIANDNSLNHE
YLPILGLAEFRSCASRLVLGDNSPAIRENRVGGVQSLGGTGALRIGADFLGRWYNGTDNKNTPIYVSSPT
WENHNAVFSAAAGFKDIRPYCYWDAEKRGLDLQGFNLNLENAPEFSIFVLHACAHNPTGTDPTPEQWKQIA
AVMQRRFLFPFFDSAYQGFASGDLEKDAWAIRYFVSEGFELFCAQSFSKNFGLYNERVGNLTVVGKESDS
VLRVLSQMEKIVRITWSNPPAQGARIVAATLSDPELFEWKGNVKTMADRILTRMSELRARLEALKTPGT
WSHITEQIGMFSFTGLNPKQVEYLVNEKHIIYLLPSGRINMCGLTTKNLDYVATSIEAVTKIQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	46.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_034454
Locus ID:	14718
UniProt ID:	P05201



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RefSeq Size:	2065
Cytogenetics:	19 36.67 cM
RefSeq ORF:	1242
Synonyms:	AI789014; cAspAT; cCAT; Got-1
Summary:	Biosynthesis of L-glutamate from L-aspartate or L-cysteine. Important regulator of levels of glutamate, the major excitatory neurotransmitter of the vertebrate central nervous system. Acts as a scavenger of glutamate in brain neuroprotection. The aspartate aminotransferase activity is involved in hepatic glucose synthesis during development and in adipocyte glyceroneogenesis. Using L-cysteine as substrate, regulates levels of mercaptopyruvate, an important source of hydrogen sulfide. Mercaptopyruvate is converted into H ₂ S via the action of 3-mercaptopyruvate sulfurtransferase (3MST). Hydrogen sulfide is an important synaptic modulator and neuroprotectant in the brain (By similarity).[UniProtKB/Swiss-Prot Function]