

GOT2

Recombinant Human Aspartate Aminotransferase Mitochondrial, Active

Catalog No.	CRA029A CRA029B	Quantity:	10 µg 1.0 mg
Alternate Names:	Aspartate aminotransferase, mitochondrial, mAspAT, Fatty acid-binding protein, FABP-1, Glutamate oxaloacetate transaminase 2		
Description:	Two GOT isoenzymes are present in humans. They have high similarity. GOT1, the cytosolic isoenzyme, derives mainly from red blood cells and heart. GOT2, the mitochondrial isoenzyme is predominantly present in liver. GOT2 is involved in amino acid metabolism and the urea and tricarboxylic acid cycles. The 2 enzymes are homodimeric and demonstrate close homology.		
Uniprot ID:	P00505		
Source:	E. coli		
Concentration:	0.5 mg/ml		
Protein Construction:	GOT2 30-430 aa with a N-terminal 23 aa His tag		
Molecular Weight:	47 kDa (424 aa)		
Formulation:	20mM Tris-HCl buffer, pH 8.0, 0.15M NaCl, 10% glycerol and 1mM DTT.		
Purity:	> 95% as determined by SDS-PAGE		
Specific Activity:	≥ 60 U/mg protein One unit is defined as the amount of enzyme that convert 1umole of α-ketoglutarate to L-Glutamate per minute at pH 8.0 at 25°C.		
Amino Acid Sequence:	<u>MGSSHHHHHH SSGLVPRGSH MGSSSWWTHV</u> EMGPPDPILG VTEAFKRDTN SKKMNLGVGA YRDDNGKPYV LPSVRKAEAQ IAAKNLDKEY LPIGGLAEFC KASAEALGE NSEVLKSGRF VTVQTISGTG ALRIGASFLQ RFFKFSRDVF LPKPTWGNHT PIFRDAGMQL QGYRYYPKT CGFDFTGAVE DISKIPEQSV LLLHACAHNP TGVDPRPEQW KEIATVVKKR NLAFFDMAY QGFASGDGDK DAWAVRHFIE QGINVCLCQS YAKNMGLYGE RVGAFTMVCK DADEAKRVES QLKILIRPMY SNPPLNGARI AAAILNTPDL RKQWLQEVKV MADRIIGMRT QLVSNLKKEG STHNWQHITD QIGMFCFTGL KPEQVERLIK EFSIYMTKDG RISVAGVTSS NVGYLAHAIH QVTK		
Storage & Stability:	Store at 2-8°C for immediate use within 2 weeks, or at -20°C to -80°C for up to 1 year. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze-thaw cycles.		



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