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32-6771: GOT2 Human, Active

Application : Functional Assay
Alternative Name : EC 2.6.1.1, Aspartate aminotransferase 1, Transaminase A, GIG18.

Description

Source: Escherichia Coli.
Sterile filtered colorless solution.
GOT2 is a pyridoxal phosphate-dependent enzyme which is found in cytoplasmic and inner-membrane mitochondrial forms, GOT1 and GOT2. GOT2 is invloved in amino acid metabolism and the urea and tricarboxylic acid cycles. The 2 enzymes are homodimeric and demonstrate close homology.
GOT2 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 424 amino acids (30-430 a.a.) and having a molecular mass of 47kDa. The GOT2 fused to a 23 amino acid his tag at N-terminus and is purified by proprietary chromatographic techniques.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	The GOT2 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSSSWWTHV EMGPPDPILG VTEAFKRDTN SKKMNLGVGA YRDDNGKPYV LPSVRKAEAQ IAAKNLDKEY LPIGGLAEFC KASAELALGE NSEVLKSGRF VTVQTISGTG ALRIGASFLQ RFFKFSRDVF LPKPTWGNHT PIFRDAGMQL QGYRYYDPKT CGFDFTGAVE DISKIPEQSV LLLHACAHNP TGVDPRPEQW KEIATVVKKR NLFAFFDMAY QGFASGDGDK DAWAVRHFIE QGINVCLCQS YAKNMGLYGE RVGAFTMVCK DADEAKRVES QLKILIRPMY SNPPLNGARI AAAILNTPDL RKQWLQEVKV MADRIIGMRT QLVSNLKKEG STHNWQHITD QIGMFCFTGL KPEQVERLIK EFSIYMTKDG RISVAGVTSS NVGYLAHAIH QVTK.

Application Note

Specific activity is > 60 units/mg, and is defined as the amount of enzyme that convert 1umole of Alpha-ketoglutarate to L-Glutamate per minute at pH 8.0 at 25C.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.