

## Glutamic-Oxaloacetic Transaminase 2 Human Recombinant, Active

<b>Item Number</b>	rAP-1921
<b>Synonyms</b>	EC 2.6.1.1, Aspartate aminotransferase 1, Transaminase A, GIG18.
<b>Description</b>	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.
<b>Uniprot Accesion Number</b>	P00505
<b>Amino Acid Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSSSWWTHV EMGPPDPILG VTEAFKRDTN SKKMNLGVGA YRDDNGKPYV LPSVRKAEAQ IAAKNLDKEY LPIGGLAEFC KASAEALALGE NSEVLKSGRF VTVQTISGTG ALRIGASFLQ RFFKFSRDVF LPKPTWGNHT PIFRDAGMQL QGYRYYPKT CGFDFTGAVE DISKIPEQSV LLLHA- CAHNP TGVDPPEQW KEIATVVKKR NLFAFFDMAY QGFASGDGDK DAWAVRHFIE QGINVCLCQS YAKNMGLYGE RVGAFTMVCK DADEAKRVES QLKILIRPMY SNPPLNGARI AAAILNTPDL RKQWLQEVKV MADRIIGMRT QLVSNLKKEG STHNWQHITD
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile filtered colorless solution. 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.
<b>Formulation and Purity</b>	The GOT2 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT. Greater than 95.0% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	
<b>Biological Activity</b>	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.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**