

## 32-6769: GOT1 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.

GOT1 is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and mitochondrial forms, GOT1 and GOT2, which participate in amino acid metabolism and the urea and tricarboxylic acid cycles. Both enzymes are homodimeric and show close homology.

GOT1 Human Recombinant E.coli produced in E.Coli is a single, non-glycosylated polypeptide chain containing 433 amino acids (1-413 a.a.) and having a molecular mass of 48.4 kDa. The GOT1 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 95.0% as determined by SDS-PAGE.

**Content :** The GOT1 solution (0.5mg/ml) containing 20mM Tris-HCl pH-8.0, 2mM DTT, 0.1M NaCl & 20% glycerol.

**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 MAPPSVFAEV PQAQPVLVFK LTADFREDPD PRKVN LGVGA  
YRTDDCHPWV LPVVKKVEQK IANDNSLNHE YLPILGLAEF RSCASRLALG DDSPALKEKR VGGVQSLGGT  
GALRIGADFL ARWYNGTNNK NTPVYVSSPT WENHNAVFS AAGFKDIRSYR YWDAEKRGD  
LQGFLNDLEN APEFSIVVLH ACAHNPTGID PTPQWKQIA SVMKHRFLFP FFDSAYQGFA SGNLERDAWA  
IRYFVSEGE FFCAQSFSKN FGLYNERVGN LTVVGKEPES ILQVLSQMEK IVRITWSNPP AQQARIVAST  
LSNPELFEEW TGNVKTADR ILTMRSELRA RLEALKTPGT WNHITDQIGM FSFTGLNPKQ VEYL VNEKHI  
YLLPSGRINV SGLTTKNLDY VATSIHEAVT KIQ.

### Application Note

Specific activity is > 50 units/mg, and is defined as the amount of enzyme that converts 1umole of a-ketoglutarate to L-Glutamate per minute at pH 8.0 at 25C.