

GOT1, human recombinant

CATALOG #:	7808-100	100 µg
ALTERNATE NAMES:	Glutamic-oxaloacetic transaminase 1, Aspartate aminotransferase 1, Transaminase A, GIG18	
SOURCE:	E. Coli	
PURITY:	> 95% by SDS - PAGE	
MOL. WEIGHT:	48.4 kDa (433 aa, 1-413 aa + His Tag)	
FORM:	Liquid	
FORMULATION:	0.5 mg/ml solution 20 mM Tris-HCl buffer (pH 8.0), 20% glycerol, 100 mM NaCl and 1 mM DTT.	

STORAGE CONDITIONS:

Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION:

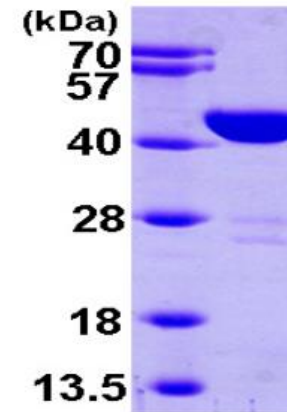
Glutamic-oxaloacetic transaminase (GOT) is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and mitochondrial forms, GOT1 and GOT2, respectively. GOT plays a role in amino acid metabolism and the urea and tricarboxylic acid cycles. The two enzymes are homodimeric and show close homology. Recombinant human GOT1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

AMINO ACID SEQUENCE:

MGSSHHHHHH SSSLVPRGSH MAPPSVFAEV PQAQPVLVFK LTADFREDPD
PRKVN LGVGA YRTDDCHPWV LPVVKKVEQK IANDNSLNHE YLPILGLAEF RSCASRLALG
DDSPALKEKR VGGVQSLGGT GALRIGADFL ARWYNGTNNK NTPVYVSSPT
WENHNAVFS AAGFKDIRSYR YWDAEKRLD LQGFLNDLEN APEFSIVVLH ACAHNPTGID
PTPEQWKQIA SVMKHRFLFP FFDSAYQGFA SGNLERDAWA IRYFVSEGFE
FFCAQSFSKN FGLYNERVGN LTVVGKEPES ILQVLSQMEK IVRITWSNPP AQQARIVAST
LSNPelfeew TGNVKTmadr ILTMRSELRA RLEALKTPGT WNHITDQIGM FSFTGLNPKQ
VEYLVNEKHI YLLPSGRINV SGLTTKNLDY VATSIHEAVT KIQ

BIOLOGICAL ACTIVITY:

Specific activity is > 13 unit/mg, in which one unit will convert 1.0 µmole of alpha-ketoglutarate to L-Glutamate per minute at pH 8.0 at 25°C.



15% SDS-PAGE (3µg)

Human Recombinant GOT1

RELATED PRODUCTS:

- GOT2, human recombinant (Cat. No. 7809-100)
- Aspartate Aminotransferase (AST or SGOT) Assay Kit (Cat. No. K753-100)

FOR RESEARCH USE ONLY! Not to be used in humans.