

32-6779: GPT2 Mouse

Application : Functional Assay
Alternative Name : ALT2, AAT2, Alanine aminotransferase 2, Glutamate pyruvate transaminase 2, Glutamic--alanine transaminase 2, Glutamic--pyruvic transaminase 2.

Description

Source: E.coli.

Sterile Filtered colorless solution.

Glutamic-Pyruvate Transaminase 2 (GPT2) catalyzes the reversible transamination among alanine and 2-oxoglutarate to create pyruvate and glutamate. GPT2 expressed mainly in muscle, fat and kidney and participates in the intermediary metabolism of glucose and amino acids.

GPT2 Mouse Recombinant produced in E. coli is a single polypeptide chain containing 522 amino acids (1-522) and having a molecular mass of 60.1 kDa. Mouse GPT2 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount : 2 µg / 10 µg
Purification : Greater than 85% as determined by SDS-PAGE.
Content : The GPT2 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 7.5), 20% glycerol, and 2mM 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 MQRRAVLVRR GSCPASGPW GRSHSSAAAE ASAALKVRPE
RSPDRILTL ESMNPQVKAV EYAVRGPIVL KAGEIEMELQ RGIKKPFTEV IRANIGDAHA MGQPITFLR
QVMALCTYPN LLNSPSFPED AKKRARRILQ ACGGNSLGSY SASQGVNCIR EDVAAFITRR DGVPADPDNI
YLTTGASDGI STILKLLVSG GPKSRTGVM IPIQYPLYS VISELDAVQV NYLDEENCW ALNVDELRRR
LRQAKDHCDP KVLCIINPGN PTGQVQSRKC IEDVIHFAWE EKLFLLADEV YQDNVYSPDC RFHSFKKVLV
QMGHEYSSNV ELASFHSTSK GYMGECEGYR GYMEVINLHP EIKGQLVKLL SVRLCPPVSG QAAMDIVVNP
PEPGEESFEQ FSREKEFVLG NLAKKAKLTE DLFNQVPGIQ CNPLQGAMYA FPRILIPAKA VEEAQSHKMA
PDMFYCMKLL EETGICVVP GSGFQREGTY HFRMTILPPV DKLKTVLHKV KDFHLKFLEQ.

Application Note

Greater than 50units/mg, and is defined as the amount of enzyme that cleaves 1umole of L-Alanine to L-Glutamate per minute at pH7.5 at 37°C.