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32-6777: GPT Rat

Application : Functional Assay

Alternative Name : Alanine aminotransferase 1 (EC:2.6.1.2), ALT1, Glutamate pyruvate transaminase 1, GPT 1, Glutamic--alanine transaminase 1, Glutamic--pyruvic transaminase 1, Gpt, Aat1, Gpt1.

Description

Source: E.coli.
Sterile Filtered colorless solution.
GPT catalyzes the reversible transamination between alanine and 2-oxoglutarate to create pyruvate and glutamate. GPT has a crucial part in the intermediary metabolism of glucose and amino acids. GPT is broadly used as an indicator of liver reliability or hepatocellular destruction in clinical tests.
GPT Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 519 amino acids (1-496 a.a) and having a molecular mass of 57.5kDa.Â

Product Info

Amount : 5 µg / 20 µg

Purification : Greater than 90.0% as determined by SDS-PAGE.

Content : GPT protein solution (1mg/ml) containing Phosphate Buffered Saline pH 7.4 and 10% 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 MGSMASRVND QSQASRNGLK GKVLTLDTMN PCVRRVEYAV RGPIVQRALE LEQELRQGVK KPFTEVIRAN IGDAQAMGQR PITFFRQVLA LCVYPNLLSS PDFPEDAKRR AERILQACGG HSLGAYSISS GIQPIREDVA QYIERRDGGI PADPNNIFLS TGASDAIVTM LKLLVSGEGR ARTGVLIPIP QYPLYSAALA ELDAVQVDYY LDEERAWALD IAELRRALCQ ARDRCCPRVL CVINPGNPTG QVQTRECIEA VIRFAFKEGL FLMADEVYQD NVYAEGSQFH SFKKVLMEMG PPYSTQQELA SFHSVSKGYM GECGFRGGYV EVVNMDAEVQ KQMGKLMSVR LCPPVPGQAL MDMVVSPPTP SEPSFKQFQA ERQEVLAELA AKAKLTEQVF NEAPGIRCNP VQGAMYSFPQ VQLPLKAVQR AQELGLAPDM FFCLCLLEET GICVVPGSGF GQQEGTYHFR MTILPPMEKL RLLLEKLSHF HAKFTHEYS.

Application Note

Specific activity is > 60units/mg, and is defined as the amount of enzyme that cleaves 1umole of L-Alanine to L-Glutamate per minute at pH 7.5 at 37C.

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