

Glutamic-Pyruvate Transaminase Rat Recombinant

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| Item Number | rAP-1919 |
| Synonyms | 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 | 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. GPT is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. |
| Uniprot Accession Number | P25409 |
| Amino Acid Sequence | MGSSHHHHHH SSGLVPRGSH MGSMASRVND QSQASRNLK GKVLTLDTMN PCVRRVEYAV RGPVQRALQ LEQELRQGVK KPFTVEVIRAN IGDAQAMGQR PITFFRQVLA LCVYPNLLSS PDFPEDAKRR AERILQACGG HSLGAYSISS GIQPIREDVA QYIERRDGGI PADPNNIFLS TGASDAIVTM LKLLVSGEGR ARTGVLIPIP QYPLYSAAAL ELDVAVQVDYY LDEERAWALD IALRRALCQ AR- DRCCPRVL |
| Source | E.coli. |
| Physical Appearance and Stability | 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. |
| Formulation and Purity | GPT protein solution (1mg/ml) containing Phosphate Buffered Saline pH 7.4 and 10% glycerol. Greater than 90.0% as determined by SDS-PAGE. |
| Application | |
| Solubility | |
| Biological Activity | 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. |
| Shipping Format and Condition | 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**