

Glutamic-Pyruvate Transaminase Mouse Recombinant

Item Number	rAP-1909
Synonyms	Alanine aminotransferase 1, ALT1, Glutamate pyruvate transaminase 1, GPT 1, Glutamic--alanine transaminase 1, Glutamic--pyruvic transaminase 1.
Description	GPT Mouse 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	Q8QZR5
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMASQRND RIQASRNLK GKVLTLDTMN PCVRRVEYAV RGPVQRALE LEQELRQGVK KPFTEVIRAN IGDAQAMGQR PITFFRQVLA LCVYPNLLSS PDFPEDAKRR AERILQACGG HSLGAYSISS GIPIREDVA QYIERRDGGI PADPNNIFLS TGASDAIVTM LKLLVAGEGR ARTGVLIPI QYPLYSAALA ELDAVQVDYY LDEERAWALD IAE LRRLCQ ARDRCCPRVL CVINPGNPTG QVQTRECIEA VIRFAFEEGL FLMA- DEVYQD NVYAEQSQFH SFKKVLEMG PPYATQQELA SFHSVSKGYM GECGFRGGYV EVDNMDAEVQ KQMAKLMSVR LCPPVPGQAL MGMVVSPTP SEPSFKQFQA ERQEVLAELA AKAKLTEQVF NEAPGIRCNP VQGAMYSFPQ IQLPLKAVQR AQDLGLAPDM FFCLCLEET
Source	Escherichia 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 (pH7.4), 1mM DTT and 10% glycerol. Greater than 90.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	Specific activity is > 40units/mg, and is defined as the amount of enzyme that convert 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**