
Product Data Sheet

Product Name: GPT2 Mouse, Active

Cat. No.: GP26155

Batch No.: 1

Product Data

Purity >98% Source Escherichia Coli.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms ALT2, AAT2, Alanine aminotransferase 2, Glutamate pyruvate transaminase 2, Glutamic--alanine transaminase 2, Glutamic--pyruvic transaminase 2.

Amino Acid Sequence

MGSSHHHHHH SGLVPRGSH MQRAAVLVRR GSCPRASGPW GRSHSSAAAE
 ASAALKVRPERSPRDRILTL ESMNPQVKAV EYAVRGPVIL KAGEIEMELQ
 RGIKKPFTEV IRANIGDAHAMGQQPITFLR QVMALCTYPN LLNSPSFPED
 AKKRARRILQ ACGGNSLGSY SASQGVNCIREDVAAFITRR DGVPADPDNI
 YLTTGASDGI STILKLLVSG GGKSRTGVMI PIPQYPLYSAVISELDAVQV
 NYLDEENCW ALNVDELRRR LRQAKDHCDP KVLICIINPGN
 PTGQVQSRKCIEDVIHFAWE EKLFLLADEV YQDNVYSPDC RFHSFKKVLY
 QMGHEYSSNV ELASFHSTSKGYMGECGYRG GYMEVINLHP EIKGQLVKLL
 SVRLCPPVSG QAAMDIVVNP PEPGEESFEQFSREKEFVLG NLAKKAKLTE
 DLFNQVPGIQ CNPLQGAMYA FPRILIPAKA VEAAQSHKMAPDMFYCMKLL
 EETGICVVPG SGFGQREGTY HFRMTILPPV DKLKTVLHKV KDFHLKFLEQ YS

Formulation The GPT2 solution (1 mg/ml) contains 2mM DTT, 20% Glycerol and 20mM Tris-HCl (pH7.5).

Introduction

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.

Biological Activity

Specific activity is > 50 units/mg. Measured by the amount of enzyme that cleaves

Caution: Product has not been fully validated for medical applications. For research use only.

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1umole of L-Alanineto L-Glutamate per minute at pH7.5 at 37C?.

Stability

Store at 46yC if entire vial will be used within 2-4 weeks. Store, frozen at -206yC 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.

Background

GPT2 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 542 amino acids (1-522 aa) and having a molecular mass of 60.1kDa.GPT2 is fused to a 20 amino acid His tag at N-terminus and purified by proprietary chromatographic techniques.

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