
Product Data Sheet

Product Name: GPT2 Human, Active

Cat. No.: GP21724

Batch No.: 1

Product Data

Purity >98%

Source E.coli.

Physical
Appearance

solid

Shipping
Condition Shipped with Ice Packs.

Synonyms

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

Amino Acid
Sequence

MGSSHHHHHSSGLVPRGSH MGSMQRAAALVRRGCGPRTTP SSWGRSQSSA
AAEASAVLKV RPERSRRERI LTLESMNPQV KAVEYAVRGP
IVLKAGEIELELQRGIKKPF TEVIRANIGD AQAMGQQPIT FLRQVMALCT
YPNLLDSPSF PEDAKKRARR ILQACGGNSLGSYSASQGVN CIREDVAAYI
TRRDGGVPAD PDNIYLTGA SDGISTILKI LVSGGGKSRT
GVMIPQYPLYSAVISELD AIQVNYLDE ENCWALNVNE LRAVQEAKD
HCDPKVLCII NPGNPTGQVQ SRKCIEDVIHFAWEEKLFL ADEVYQDNVY
SPDCRFHSFK KVL YEMGPEY SSNVELASFH STSKGYMGEC
GYRGGYMEVINLHPEIKGQL VKLLSVRLCP PVSGQAAMDI VVNPPVAGEE
SFEQFSREKE SVLGNLAKKA KLTEDLFNQV PGIHCNPLQGAMYAFPRIFI
PAKAVEAAQA HQMAPDMFYC MKLLEETGIC VVPGSGFGQR EGTYHFRMTI
LPPVEKLTVLQKVKDFHIN FLEKYA.

Formulation

The GPT2 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH7.5), 30% glycerol, 2mM DTT, 0.2M NaCl.

Introduction

Alanine aminotransferase 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. Multiple transcript variants encoding various isoforms have been found for GPT2.

Biological Activity

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

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Specific activity is > 100units/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.

Stability

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.

Background

GPT2 Human Recombinant produced in E. coli is a single polypeptide chain containing 546 amino acids (1-523) and having a molecular mass of 60.3 kDa. GPT2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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