
Product Data Sheet

Product Name: GPT2 Human

Cat. No.: GP21723

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

MGSSHHHHHH SGLVPRGSH MGSMQRAAAL VRRGCGPRTP SSWGRSQSSA
 AAEASAVLKV RPERSRRERI LTLESMNPQV KAVEYAVRGP IVLKAGEIEL
 ELQRGIKKPF TEVIRANIGD AQAMGQQPIT FLRQVMALCT YPNLLDSPSF
 PEDAkkRARR ILQACGGNSL GSYSASQGVN CIREDVAAYI TRRDGGVPAD
 PDNIYLTTGA SDGISTILKI LVSGGGKSRT GVMIPQYP LYSAVISELD
 AIQVNYLDE ENCWALNVNE LRRAVQEAKD HCDPKVLCII NPGNPTGQVQ
 SRKCIEDVIH FAWEEKLFL L ADEVYQDNVY SPDCRFHSFK KVL YEMGPEY
 SSNVELASFH STSKGYMGEC GYRGGYMEVI NLHPEIKGQL VKLLSVRLCP
 PVSGQAAMDI VVNPPVAGEE SFEQFSREKE SVLGNLAKKA KLTEDLFNQV
 PGIHCNPLQG AMYAFPRIFI PAKAVEAAQA HQMAPDMFYC MKLLEETGIC
 VVPGSGFGQR EGTYHFRMTI LPPVEKTKTV LQKVKDFHIN FLEKYA.

Formulation

The GPT2 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 7.5), 30% glycerol, 0.2M NaCl and 2mM DTT.

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

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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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