
Product Data Sheet

Product Name: GOT2 Human, Active

Cat. No.: GP21711

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	EC 2.6.1.1; Aspartate aminotransferase 1; Transaminase A; GIG18.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSSSWWTHV EMGPPDPILG VTEAFKRDTN SKKMNGLVGA YRDDNGKPYVLPVSRKAEAQ IAAKNLDKEY LPIGGLAEFC KASAEALALGE NSEVLKSGRF VTVQTISGTG ALRIGASFLQRFFKFSRDVF LPKPTWGNHT PIFRDAGMQL QGYRYDPKT CGFDFTGAVE DISKIPEQSV LLLHACAHPN TGVDPRPEQW KEIATVVKKRNLFAFFDMAY QGFASGDGDK DAWAVRHFIE QGINVCLCQS YAKNMGLYGE RVGAFTMVCK DADEAKRVESQLKILIRPMY SNPPLNGARI AAAILNTPDL RKQWLQEVKV MADRIIGMRT QLVSNLKKEG STHNWQHITD QIGMFCFTGL KPEQVERLIK EFSIYMTKDG RISVAGVTSSNVGYLAHAIH QVTK.		
Formulation	The GOT2 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

GOT2 is a pyridoxal phosphate-dependent enzyme which is found in cytoplasmic and inner-membrane mitochondrial forms, GOT1 and GOT2. GOT2 is involved in amino acid metabolism and the urea and tricarboxylic acid cycles. The 2 enzymes are homodimeric and demonstrate close homology.

Biological Activity

Specific activity is > 60 units/mg, and is defined as the amount of enzyme that convert 1umole of α -ketoglutarate to L-Glutamate per minute at pH 8.0 at 25C.

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

GOT2 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 424 amino acids (30-430 a.a.) and having a molecular mass of 47kDa. The GOT2 fused to a 23 amino acid his tag at N-terminus and is purified by proprietary chromatographic techniques.

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