Creative Enzymes®

Aspartate Aminotransferase from Human, Recombinant

Cat. No. DIA-128

Lot. No. (See product label)

Introduction

Description	GOT1 is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and mitochondrial forms, GOT1 and GOT2, which participate in amino acid metabolism and the urea and tricarboxylic acid cycles. Both enzymes are homodimeric and show close homology. GOT1 Human Recombinant E.coli produced in E.Coli is a single, non-glycosylated polypeptide chain containing 433 amino acids (1-413 a.a.) and having a molecular mass of 48.4 kDa. The GOT1 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.
Synonyms	Aspartate transaminase; AST; aspartate aminotransferase; sgot AspAT; ASAT; AAT; serum glutamic oxaloacetic transaminase; SGOT; pyridoxal phosphate PLP-dependent transaminase enzyme; EC 2.6.1.1; 9000-97-9

Product Information

Species	Human
Source	E.coli
Form	Sterile filtered colorless solution.
Formulation	The GOT1 solution (0.5mg/ml) containing 20mM Tris-HCl pH-8.0, 2mM DTT, 0.1M NaCl & 20% glycerol.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Activity	> 50 units/mg
Unit Definition	One unit is defined as the amount of enzyme that converts 1umole of a-ketoglutarate to L-Glutamate per minute at pH 8.0 at 25°C.

Storage and Shipping Information

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.