
Product Data Sheet

Product Name: A2LD1 Human
 Cat. No.: GP22669
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Gamma-glutamylaminecyclotransferase; GGACT; AIG2-like domain-containing protein 1; A2LD1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MALVFVYGTL KRGQPNHRVL RDGAHGSAAF RARGRTLEPY PLVIAGEHNI PWLLHLPGSG RLVEGEVYAV DERMLRFLDD FESCPALYQR TVLRVQLLED RAPGAEEPPA PTAVQCFVYS RATFPPEWAQ LPHHDSYDSE GPHGLRYNPR ENR.		
Formulation	The A2LD1 solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.1M NaCl.		

Introduction

Gamma-glutamylaminecyclotransferase (A2LD1) is an enzyme which converts gamma-glutamylamines to free amines and 5-oxoproline. A2LD1 demonstrates high activity toward gamma-glutamyl-epsilon-lysine, derived from the breakdown of fibrin and other proteins cross-linked by transglutaminases. A2LD1 assists in the proteolytic degradation of crosslinked fibrin by breaking down isodipeptide L-gamma-glutamyl-L-epsilon-lysine, which is a byproduct of fibrin degradation. The reaction catalyzed by the A2LD1 produces 5-oxo-L-proline and a free alkylamine.

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

A2LD1 Human Recombinant fused with a20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 173 amino acids (1-

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

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153 a.a.) and having a molecular mass of 19.4kDa. The A2LD1 is purified by proprietary chromatographic techniques.

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