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Recombinant human A2LD1/GGACT protein

Catalog Number: ATGP0959

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-153aa

UniProt No.

O9BVM4

NCBI Accession No.

NP 149101

Alternative Names

Gamma-glutamylaminecyclotransferase, GGACT

PRODUCT SPECIFICATION

Molecular Weight

19.4 kDa (173aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.1M NaCl

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

A2LD1, also known as gamma-glutamylaminecyclotransferase, is an enzyme that converts gamma-glutamylamines to free amines and 5-oxoproline. It shows high activity toward gamma-glutamyl-epsilon-lysine, derived from the breakdown of fibrin and other proteins cross-linked by transglutaminases. This protein adopts the newly identified cyclotransferase fold, observed in gamma-glutamylcyclotransferase, an enzyme with activity toward gamma-glutamyl-alpha-amino acids. Recombinant human A2LD1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.



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Amino acid Sequence

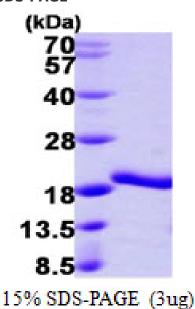
MGSSHHHHHH SSGLVPRGSH MALVFVYGTL KRGQPNHRVL RDGAHGSAAF RARGRTLEPY PLVIAGEHNI PWLLHLPGSG RLVEGEVYAV DERMLRFLDD FESCPALYQR TVLRVQLLED RAPGAEEPPA PTAVQCFVYS RATFPPEWAQ LPHHDSYDSE GPHGLRYNPR ENR

General References

Oakley AJ,., et al. (2010), J Biol Chem., 285:9642-8. Danson JW., et al. (2002), Anal Biochem., 303:120-30.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

