Recombinant human ACYP1 protein

Catalog Number: ATGP0928

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-99aa

UniProt No.
P07311

NCBI Accession No.
NP_001098

Alternative Names
Acylphosphatase-1, ACYPE, erythrocyte acylphosphatase

PRODUCT SPECIFICATION

Molecular Weight
13.6 kDa (122aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

Purity
> 90% 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
ACYP1, also known as erythrocyte acylphosphatase, is a cytosolic enzyme that catalyzes the hydrolysis of the carboxyl-phosphate bond of acylphosphates. Two acylphophatase isoenzymes exist: ACYP1 and ACYP2. The two isoenzymes share 60% homology and have the same substrate specificity, although ACYP1 has higher catalytic activity than ACYP2. Recombinant human ACYP1 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

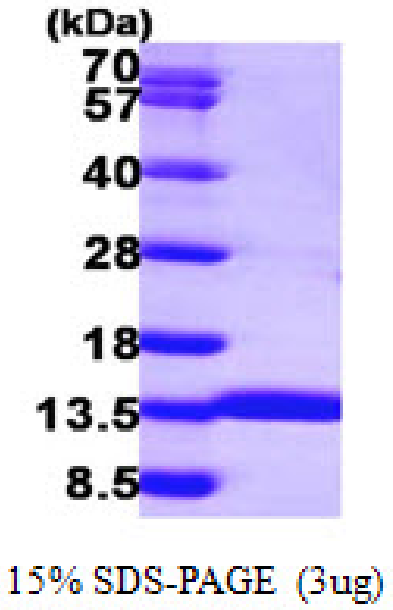
MGSSHHHHHH SSGLVPRGSH MGSMAEGNTL ISVDYEIFGK VQGVFFRKHT QAEGKKLGLV GWVQNTDRGT VQGQLQGPIS KVRHMQEWLE TRGSPKSHID KANFNNEKVI LKLDYSDFQI VK

General References

Fiaschi T, et al. (1995). FEBS Lett. 367:145-8.
Paoli P., et al. (2003). J. Biol. Chem. 278: 194-199.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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