

Recombinant human TRACP/PAP/ACP5 protein

Catalog Number: ATGP3514

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

22-325aa

UniProt No.

P13686

NCBI Accession No.

NP_001104505

Alternative Names

Tartrate-resistant acid phosphatase type 5, SPENCDI, TRAP, HPAP, TRACP5a, TRACP5b, TrATPase

PRODUCT SPECIFICATION

Molecular Weight

34.3 kDa (304aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Specific activity is >10,000unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0nmole of p-nitrophenyl phosphate (pNPP) per minute at pH 5.0 at 37C

Tag

Non-Tagged

Application

Enzyme Activity, 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

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Description

ACP5, also known as tartrate-resistant acid phosphatase type 5, is involved in osteopontin and bone sialoprotein dephosphorylation. Its expression seems to increase in certain pathological states such as Gaucher and Hodgkin diseases, the hairy cell, the B-cell, and the T-cell leukemias. Recombinant human ACP5 was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

ATPALRFVAV GDWGGVPNAP FHTAREMANA KEIARTVQIL GADFILSLGD NFYFTGVQDI NDKRFQETFE DVFSDRSLRK
VPWYVLAGNH DHLGNVSAQI AYSKISKRWN FPSPFYRLHF KIPQTNVSAV IFMLDTVTLC GNSDDFLSQQ PERPRDVKLA
RTQLSWLKKQ LAAAREDYVL VAGHYPVWSI AEHGPTHCLV KQLRPLLATY GVTAYLCGHD HNLQYLQDEN GVGYYVLSGAG
NFMDPKSRHQ RKVPNGYLRH HYGTEDSLGG FAYVEISSKE MVTYIEASG KSLFKTRLPR RARP

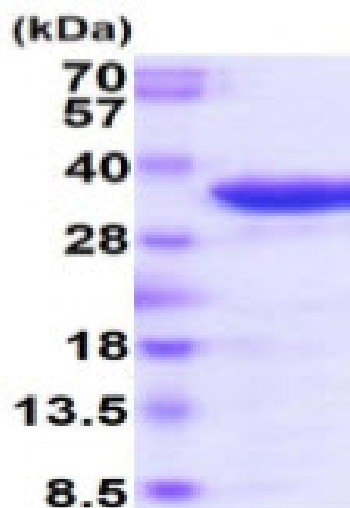
General References

Janckila A.J. et al., (1992) Clin. Biochem. 25:437-443.

Hayman A.R. et al., (1991) Biochem. J. 277:631-634.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)