

ACP5, 22-325aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3155

Full name: Tartrate-resistant acid phosphatase type 5

NCBI Accession No.: NP_001104505

Synonyms: SPENCDI, TRAP

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, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

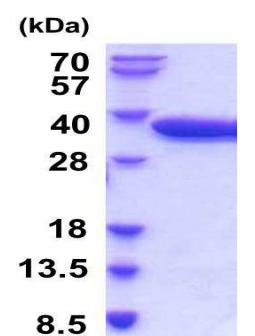
Molecular Weight: 35.1kDa (310aa)
28-40KDa (SDS-PAGE under reducing conditions.)

Purity: > 95% by SDS - PAGE.

Concentration: 0.5mg/ml (determined by Absorbance at 280nm)

Endotoxin Level: < 1.0 EU per 1µg of protein (determined by LAL method)

Biological activity: Specific activity is > 5,000 units/mg, and is defined as the amount of enzyme that hydrolyze 1.0 nmoles of p-nitrophenyl phosphate (pNPP) per minute at pH 5.0 at 37C.



15% SDS-PAGE (3ug)

Sequences of amino acids:

ATPALRFVAV GDWGGVPNAP FHTAREMANA KEIARTVQIL GADFILSLGD NFYFTGVQDI NDKRFQETFE DVFSDRSLRK VPWYVLAGNH
DHLGNVSAQI AYSKISKRW NFPSPFYRLHF KIPQTNVSV AIFMLDVTLC GNSDDFLSQQ PERPRDVKLA RTQLSWLKKQ LAAAREDYVL
VAGHYPVWSI AEHGPTHCLV KQLRPLLATY GVTAYLCGHD HNLQYLQDEN GVG YVLSGAG NFM DPSKRHQ RKVPNGYLRF HYGTEDSLGG
FAYVEISSKE MTVTYIEASG KSLFKTRLPR RARPHHHHHH

General references:

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

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

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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