

## ACP5, 22-325aa

Human, Recombinant, Insect cell

Cat. No. IBATGP3514

**Full name:** Tartrate-resistant acid phosphatase type 5

**NCBI Accession No.:** NP\_001104505

**Synonyms:** SPENCDI, TRAP, HPAP, TRACP5a, TRACP5b, TrATPase

**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.

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

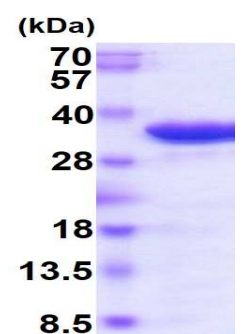
**Molecular Weight:** 34.3kDa (304aa)  
28-40kDa (SDS-PAGE under reducing conditions.)

**Purity:** > 90% 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 >10,000 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 NPYFTGVQDI NDKRFQETFE DVFSDRSLRK VPWYVLAGNH  
DHLGNVSAQI AYSKISKRWN FPSPFYRLHF KIPQTNVSVV IFMLDVTVLC GNSDDFLSQQ PERPRDVKLA RTQLSWLKKQ LAAAREDYVL  
VAGHYPVWSI AEHGPTHCLV KQLRPLLATY GVTAYLCGHD HNLQYLQDEN GVGYYVLSGAG NFMGPSKRHQ RKVPNGYLRF 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.

**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:

Immuno-Biological Laboratories, Inc. (IBL-America)  
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA  
Phone: (888) 523-1246 Fax: (763) 780-2988  
Email: [info@ibl-america.com](mailto:info@ibl-america.com) Web: [www.ibl-america.com](http://www.ibl-america.com)