

Recombinant Human ACP5 protein, His-tagged

Cat. No. ACP5-38H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ACP5, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
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.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	35.1kDa (310aa) 28-40kDa (SDS-PAGE under reducing conditions)
AA Sequence	ATPALRFVAV GDWGGVPNAP FHTAREMANA KEIARTVQIL GADFILSLGD NFYFTGVQDI NDKRFQETFE DVFSDRSLRK VPWYVLAGNHDHLGNVSAQI AYSKISKRWN FPSPFYRLHF KIPQTNVSV AIFMLDVT TLC GNSDDFLSQQ PERPRDVKLA RTQLSWLKKQ LAAAREDYVLVAGHYPVWSI AEHGPTHCLV KQLRPLLATY GVTAYLCGHD HNLQYLQDEN GVGYYVLSGAG NFMDPSKRHQ RKVPNGYLR FHYGTEDSLGGFAYVEISSKE MTVTYIEASG KSLFKTRLPR RARPHHHHHH
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)

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Purity	>95% by SDS – PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Absorbance at 280nm)
GENE INFORMATION	
Gene Name	ACP5 acid phosphatase 5, tartrate resistant [Homo sapiens]
Official Symbol	ACP5
Synonyms	ACP5; acid phosphatase 5, tartrate resistant; tartrate-resistant acid phosphatase type 5; tartrate resistant acid phosphatase; TRAP; TrATPase; tartrate-resistant acid ATPase; SPENCDI;
Gene ID	54
mRNA Refseq	NM_001111034
Protein Refseq	NP_001104504
MIM	171640
UniProt ID	P13686
Chromosome Location	19p13.3-p13.2
Pathway	Lysosome, organism-specific biosystem; Lysosome, conserved biosystem;

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Metabolism, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific biosystem; Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem; Osteoclast Signaling, organism-specific biosystem; Osteoclast differentiation, organism-specific biosystem;

Function

acid phosphatase activity; ferric iron binding; ferrous iron binding; hydrolase activity; metal ion binding;

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