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**Product Data Sheet**


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Product Name: ACP5 Human  
 Cat. No.: GP21344  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Acid Phosphatase 5; Tartrate Resistant; Tartrate-Resistant Acid ATPase; Human Purple Acid Phosphatase; EC 3.1.3.2; TrATPase; Tartrate-Resistant Acid Phosphatase Type 5; Tartrate-Resistant Acid Phosphatase 5a; Tartrate-Resistant Acid Phosphatase 5b; Tartrate-Resistant Acid Phosphatase; Type 5 Acid Phosphatase; TRACP5a; TRACP5b; TR-AP; HPAP; TRAP; ACP5.		
Amino Acid Sequence	ATPALRFVAV GDWGGVPNAP FHTAREMANA KEIARTVQIL GADFILSLGD NFYFTGVQDI NDKRFQETFE DVFSDRSLRK VPWYVLAGNH DHLGNVSAQI AYSKISKRWN FPSPFYRLHF KIPQTNVSVA IFMLDVTVLC GNSDDFLSQQ PERPRDVKLA RTQLSWLKKQ LAAAREDYVL VAGHYPVWSI AEHGPTHCLV KQLRPLLATY GVTAYLCGHD HNLQYLQDEN GVG YVLSGAG NFMDPSKRHQ RKVPNGYLRH HYGTEDSLGG FAYVEISSKE MTVTYIEASG KSLFKTRLPR RARP.		
Formulation	ACP5 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

**Introduction**

Tartrate-resistant acid phosphatase type 5 (ACP5) is involved in osteopontin and bone sialoprotein dephosphorylation. ACP5 is an iron containing glycoprotein which catalyzes the conversion of orthophosphoric monoester to alcohol and orthophosphate. ACP5 expression seems to increase in some pathological states such as Gaucher and Hodgkin diseases, the hairy cell, the B-cell, and the T-cell leukemias. ACP5 is the most basic of the acid phosphatases and is the only form not inhibited by L(+)-tartrate.

**Biological Activity**

Specific activity is >10,000 units/mg, and is defined as the amount of enzyme that

**Caution: Product has not been fully validated for medical applications. For research use only.**

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hydrolyze 1.0 nmoles of p-nitrophenyl phosphate (pNPP) per minute at pH 5.0 at 37°C.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

ACP5 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 304 amino acids (22-325 a.a.) and having a molecular mass of 34.3kDa (Migrates at 28-40kDa on SDS-PAGE under reducing conditions). ACP5 is purified by proprietary chromatographic techniques.

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