

## Acid Phosphatase-5 Human Recombinant

<b>Item Number</b>	rAP-1510
<b>Synonyms</b>	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 5c
<b>Description</b>	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.
<b>Uniprot Accesion Number</b>	P13686
<b>Amino Acid Sequence</b>	ATPALRFVAV GDWGGVPNAP FHTAREMANA KEIARTVQIL GADFILSLGD NFYFTGVQDI NDKRFQET- FE DVFSDRSLRK VPWYVLAGNH DHLGNVSAQI AYSKISKRWN FPSPFYRLHF KIPQTNVSV IFMLDTVTLC GNSDDFLSQQ PERPRDVKLA RTQLSWLKKQ LAAAREDYVL VAGHYPVWSI AEHGPTH- CLV KQLRPLLATY GVTAYLCCHD HNLQYLQDEN GVGYVLSGAG NFMDPSKRHQ RKVPNGYLRF HY- GTEDSLGG FAYVEISSKE MTVTYIEASG KSLFKTRLPR RARP.
<b>Source</b>	Sf9, Baculovirus cells.
<b>Physical Appearance and Stability</b>	Sterile Filtered colorless solution. 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.
<b>Formulation and Purity</b>	ACP5 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol. Greater than 90.0% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	
<b>Biological Activity</b>	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 37°C.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**