
Product Data Sheet

Product Name: ACP5 Human, His

Cat. No.: GP21343

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; EC 3.1.3.2; TrATPase; SPENCDI; Tartrate-Resistant Acid Phosphatase Type 5; Tartrate-Resistant Acid Phosphatase; Type 5 Acid Phosphatase; TR-AP; 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
 RARPHHHHHH.

Formulation ACP5 protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Introduction

Acid Phosphatase-5, also known as ACP5 is a member of the Purple acidphosphatase family. ACP5 is implicated in osteopontin as well as bone sialoproteindephosphorylation. ACP5 expression appears to increase in certain pathological states for instance Gaucher & Hodgkin diseases, the hairy cell, the B-cell, as well as the T-cell leukemias.

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store. frozen at -20°C for longer

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

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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 310 amino acids (22-325 a.a) and having a molecular mass of 35.1kDa (Migrates at 28-40kDa on SDS-PAGE under reducing conditions). ACP5 is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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