Creative Enzymes®

Acid phosphatase 1 from Human, recombinant

Cat. No. NATE-1672

Lot. No. (See product label)

Introduction

Description	Acid phosphatase 1, also known as ACP1, belongs to the phosphotyrosine protein family. It functions as an acid phosphatase and a protein tyrosine phosphatase (PTPase) and is present in all human tissues, including adipocytes. This enzyme hydrolyzes protein tyrosine phosphate to protein tyrosine and orthophosphate, and also orthophosphoric monoesters to alcohol and orthophosphate.
Synonyms	Acid phosphatase 1; soluble isoform b; ACP1; HAAP; LMW-PTP; Red cell acid phosphatase 1; Adipocyte acid phosphatase

Product Information

Species	Human
Source	E. coli
Form	Liquid
EC Number	EC 3.1.3.2
CAS No.	9001-77-8
Molecular Weight	20.1 kDa (178 aa, 1-158 aa + NT His-Tag)
Purity	> 95% by SDS-PAGE
Activity	> 15,000 Units/mg protein
Concentration	1 mg/ml
Endotoxin Level	< 1.0 EU per 1 μg of protein (determined by LAL method)
Unit Definition	One unit is defined as the amount of enzyme that will hydrolyze 1 nmole of p-nitrophenyl phosphate per minute at 37°C in MES pH 5.0 using 10 mM of substrate.

Storage and Shipping Information

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.