

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.