
Product Data Sheet

Product Name: ACP2 Human
 Cat. No.: GP21342
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Acid Phosphatase 2; Lysosoma; EC 3.1.3.2 LAP; Lysosomal Acid Phosphatase; ACP2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSRLRFVT LLYRHGDRSP VKTYPKDPYQ EEEWPQGFGQ LTKEGMLQHW ELGOALRQRY HGFLNTSYHR QEVYVRSTDF DRTLMSAEAN LAGLFPNGM QRFNPNISWQ PIPVHTVPIT EDRLKFLPLG PCPRYEQLQN ETRQTPEYQN ESSRNAQFLD MVANETGLTD LTLETVWNVY DTLFCEQTHG LRLPPWASPQ TMQRLSRLKD FSFRFLFGIY QQA EKARLQG GVLLAQIRKN LTLMATTSQL PKLLVYSAHD TTLVALQMAL DVYNGEQAPY ASCHIFELYQ EDSGNFSVEM YFRNESDKAP WPLSLPGCPH RCPLQDFLRL TEPVVPKDWQ QECQLASGPA DTE		
Formulation	ACP2 protein solution (1mg/ml) contains 20mM Tris-HCl (pH8.0) and 10% glycerol.		

Introduction

Acid Phosphatase-2, also known as ACP2 is composed of two subunits, Alpha & beta, and is chemically as well as genetically distinct from red cell acid phosphatase. ACP2 belongs to a family of distinct isoenzymes which hydrolyze orthophosphoric monoesters to alcohol and phosphate. In addition, Acid phosphatase deficiency is caused by mutations in the ACP2-beta subunit as well as ACP3-alpha subunit genes.

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

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

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ACP2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 373 amino acids (31-380 a.a.) and having a molecular mass of 42.9kDa. ACP2 is fused to a 23 amino acid His-Tag at N-Terminus and purified by conventional chromatography techniques.

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