

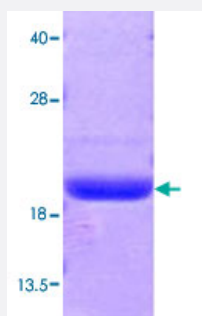
Bioactive

Full-Length

ACP1 (Human) Recombinant Protein

Catalog # P3482 Size 100 ug

Applications



Specification

Product Description	Human ACP1 (NP_009030, 1 a.a. - 158 a.a.) full-length recombinant protein with His tag expressed in <i>Escherichia coli</i> .
Sequence	MGSSHHHHHHSSGLVPRGSHMAEQATKSVLFVCLGNICRSPIAEAVFRKLVTDQNIENWVIDSG AVSDWNVGRSPDPRAVSLRNHGIHTAHKARQITKEDFATFDYILCMDESNLRDLNRKSNQVKTC KAKIELLGSYDPQKQLIEDPYGNDSDFETVYQQCVRCCRAFLEKAH
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	20.1
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Purification	Conventional Chromatography
Concentration	1 mg/mL
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Activity	Activity tested: > 60,000 unit/mg of protein

Quality Control Testing

Loading 3 ug protein in 15% SDS-PAGE

Storage Buffer

In 20 mM MES 6.0, 2 mM EDTA (10% glycerol, 0.1 mM PMSF).

Storage Instruction

Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — ACP1

Entrez GeneID

[52](#)

Protein Accession#

[NP_009030](#)

Gene Name

ACP1

Gene Alias

HAAP, MGC111030, MGC3499

Gene Description

acid phosphatase 1, soluble

Omim ID

[171500](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

The product of this gene belongs to the phosphotyrosine protein phosphatase family of proteins. It functions as an acid phosphatase and a protein tyrosine phosphatase by hydrolyzing protein tyrosine phosphate to protein tyrosine and orthophosphate. This enzyme also hydrolyzes orthophosphoric monoesters to alcohol and orthophosphate. This gene is genetically polymorphic, and three common alleles segregating at the corresponding locus give rise to six phenotypes. Each allele appears to encode at least two electrophoretically different isozymes, Bf and Bs, which are produced in allele-specific ratios. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq]

Other Designations

acid phosphatase of erythrocyte|adipocyte acid phosphatase|cytoplasmic phosphotyrosyl protein phosphatase|low molecular weight phosphotyrosine protein phosphatase|protein tyrosine phosphatase|red cell acid phosphatase 1

Pathway

- [Adherens junction](#)
- [gamma-Hexachlorocyclohexane degradation](#)
- [Riboflavin metabolism](#)

Disease

- [Abortion](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Birth Weight](#)
- [Cardiovascular Diseases](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Coronary Artery Disease](#)
- [Crohn Disease](#)
- [Dermatitis](#)
- [Diabetes](#)
- [Diabetes Mellitus](#)
- [Diabetic Ketoacidosis](#)
- [Edema](#)
- [Endometriosis](#)
- [Fetal Growth Retardation](#)
- [Genetic Predisposition to Disease](#)
- [Hyperlipidemias](#)
- [Hypersensitivity](#)

- [Insulin Resistance](#)
- [Leiomyoma](#)
- [Liver Cirrhosis](#)
- [Lupus Erythematosus](#)
- [Malaria](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Pregnancy in Diabetics](#)
- [Prenatal Exposure Delayed Effects](#)
- [Tobacco Use Disorder](#)
- [Tourette Syndrome](#)
- [Tuberculosis](#)
- [Uterine Neoplasms](#)