





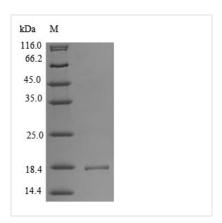
Recombinant Human Low molecular weight phosphotyrosine protein phosphatase (ACP1)

Product Code	CSB-EP001176HUe1
Relevance	Acts on tyrosine phosphorylated proteins, low-MW aryl phosphates and natural and synthetic acyl phosphates. Isoform 3 does not possess phosphatase activity.
Abbreviation	Recombinant Human ACP1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P24666
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MAEQATKSVLFVCLGNICRSPIAEAVFRKLVTDQNISENWRVDSAATSGYEIGN PPDYRGQSCMKRHGIPMSHVARQITKEDFATFDYILCMDESNLRDLNRKSNQ VKTCKAKIELLGSYDPQKQLIIEDPYYGNDSDFETVYQQCVRCCRAFLEKAH
Research Area	Cell Biology
Source	E.coli
Target Names	ACP1
Protein Names	Adipocyte acid phosphatase Low molecular weight cytosolic acid phosphatase (EC:3.1.3.2) Red cell acid phosphatase 1
Expression Region	1-158aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag-Free
Mol. Weight	18.0 kDa
Protein Length	Full Length
Image	

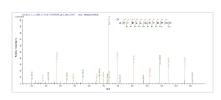
CUSABIO TECHNOLOGY LLC



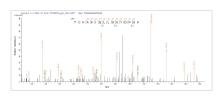




(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP001176HUe1 could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) ACP1.



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Description

The recombinant human low molecular weight phosphotyrosine protein phosphatase (ACP1) was produced in E. coli through recombinant DNA technology, where the expression region covers the full-length human ACP1 (1-158aa). It was accessed to have a purity level of greater than 90% by SDS-PAGE. The LC-MS/MS analysis confirms that the expressed recombinant human ACP1 protein corresponds to the expected human ACP1 sequence and verifies its structural integrity.

This recombinant human ACP1 can be used in various cell biology applications due to its ability to dephosphorylate tyrosine residues on proteins. Researchers can utilize the recombinant human ACP1 to study the functional consequences of its activity on specific target proteins. By adding the purified recombinant human ACP1 to in vitro systems or introducing it into cells, researchers can investigate the impact of dephosphorylation on signaling events, protein-protein interactions, and downstream cellular responses.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.