

## ABHD5 Protein, Human, Recombinant (His &amp; SUMO)

## General Information

Synonyms:	Lipid droplet-binding protein CGI-58; Abhydrolase domain-containing protein 5; ABHD5; NCIE2; 1-acylglycerol-3-phosphate O-acyltransferase ABHD5
Protein Construction:	2-349 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q8WTS1
Molecular Weight:	55.0 kDa (predicted)
AA Sequence:	AAEEEEVDSADTGERSGWLTGWLPTWCPTSISHLKEAEEKMLKCVPTCYKKEPVRISNGNKIWLKFSHNISN KTPLVLLHGFGGGLGLWALNFGDLCTNRPVYAFDLLGFGRSSRPRFDSDAEEVENQFVESIEEWRCALGLDK MILLGHNLGGFLAAAYSLKYPSRVNHLILVEPWGFPERPDLDQDRPIPWWIRALGAALTPFNPLAGLRIAGPF GLSLVQRLRPDFKRKYSSMFEDDTVTEYIYHCNVQTPSGETAFKNMTIPYGWAKRPMQLQRIGKMHDPVSVI FGARSCIDGNSGTSIQSLRPHSYVKTIAILGAGHYVYADQPEEFNQKVKEICDTVD

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

## Preparation and Storage

## Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

Coenzyme A-dependent lysophosphatidic acid acyltransferase that catalyzes the transfer of an acyl group on a lysophosphatidic acid. Functions preferentially with 1-oleoyl-lysophosphatidic acid followed by 1-palmitoyl-

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lysophosphatidic acid, 1-stearoyl-lysophosphatidic acid and 1-arachidonoyl-lysophosphatidic acid as lipid acceptor. Functions preferentially with arachidonoyl-CoA followed by oleoyl-CoA as acyl group donors. Functions in phosphatidic acid biosynthesis. May regulate the cellular storage of triacylglycerol through activation of the phospholipase PNPLA2. Involved in keratinocyte differentiation. Regulates lipid droplet fusion.

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