

# Recombinant Human ABHD4 Protein (His Tag)

Catalog Number:PKSH031257



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

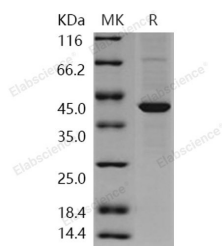
## Description

|                                    |                          |
|------------------------------------|--------------------------|
| <b>Synonyms</b>                    | ABH4                     |
| <b>Species</b>                     | Human                    |
| <b>Expression Host</b>             | Baculovirus-Insect Cells |
| <b>Sequence</b>                    | Met 1-Asp 342            |
| <b>Accession</b>                   | NP_071343.2              |
| <b>Calculated Molecular Weight</b> | 41.0 kDa                 |
| <b>Observed molecular weight</b>   | 40 kDa                   |
| <b>Tag</b>                         | N-His                    |

## Properties

|                       |  |
|-----------------------|--|
| <b>Purity</b>         | > 82 % as determined by reducing SDS-PAGE.   |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.  |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.        |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.  |
| <b>Formulation</b>    | Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 8.0<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.   |

## Data



> 82 % as determined by reducing SDS-PAGE.

## Background

Abhydrolase domain containing 4 (ABHD4), also known as alpha/beta-hydrolase 4 (ABH4), or lyso-N-acylphosphatidylethanolamine lipase, which belongs to the ABHD4/ABHD5 subfamily of peptidase S33 family. Abhydrolase domain containing (ABHD) gene was a small group belongs to alpha/beta hydrolase superfamily. Known members of this group are all found to be involved in important biochemical processes and related to various diseases. The alpha/beta-hydrolase 4 (ABH4) is a lysophospholipase/phospholipase B that selectively hydrolyzes N-acyl phosphatidylethanolamines (NAPEs) and lysoNAPEs. ABH4 accepts lysoNAPEs bearing both saturated and polyunsaturated N-acyl chains as substrates and displays a distribution that closely mirrors lysoNAPE-lipase activity in mouse tissues. The existence of an NAPE-PLD-independent route for NAE biosynthesis and suggest that ABH4 plays a

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role in this metabolic pathway by acting as a (lyso)NAPE-selective lipase.

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