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# DDHD1 Blocking Peptide (C-term)

**Synthetic peptide**
**Catalog # BP5427b**

## Specification

### DDHD1 Blocking Peptide (C-term) - Product Information

| | |
|---|---|
| Primary Accession | Q8NEL9 |
| Other Accession | NP_085140.2, NP_001153620.1, NP_001153619.1 |

### DDHD1 Blocking Peptide (C-term) - Additional Information

**Gene ID** 80821

**Other Names**
Phospholipase DDHD1, 311-, DDHD domain-containing protein 1, Phosphatidic acid-preferring phospholipase A1 homolog, PA-PLA1, DDHD1, KIAA1705

**Target/Specificity**
The synthetic peptide sequence is selected from aa 841-854 of HUMAN DDHD1

**Format**
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### DDHD1 Blocking Peptide (C-term) - Protein Information

**Name** DDHD1 (HGNC:19714)

**Synonyms** KIAA1705

**Function**
Phospholipase A1 (PLA1) that hydrolyzes ester bonds at the sn-1 position of glycerophospholipids producing a free fatty acid and a lysophospholipid (PubMed:<a href="http://www.uniprot.org/citations/20359546" target="_blank">20359546</a>, PubMed:<a href="http://www.uniprot.org/citations/22922100" target="_blank">22922100</a>) (Probable). Prefers phosphatidate (1,2-diacyl-sn-glycero-3-phosphate, PA) as substrate in vitro, but can efficiently hydrolyze phosphatidylinositol (1,2-diacyl- sn-glycero-3-phospho-(1D-myo-inositol), PI), as well as a range of other glycerophospholipid substrates such as phosphatidylcholine (1,2-diacyl-sn-glycero-3-phosphocholine, PC), phosphatidylethanolamine (1,2-diacyl-sn-glycero-3-phosphoethanolamine, PE), phosphatidylserine (1,2-diacyl-sn-glycero-3-phospho-L-serine, PS) and phosphatidylglycerol

(1,2-diacyl-sn-glycero-3-phospho-(1'-sn-glycerol), PG) (PubMed:<a href="http://www.uniprot.org/citations/20359546" target="_blank">20359546</a>) (Probable). Involved in the regulation of the endogenous content of polyunsaturated PI and PS lipids in the nervous system. Changes in these lipids extend to downstream metabolic products like PI phosphates PIP and PIP2, which play fundamental roles in cell biology (By similarity). Regulates mitochondrial morphology (PubMed:<a href="http://www.uniprot.org/citations/24599962" target="_blank">24599962</a>). These dynamic changes may be due to PA hydrolysis at the mitochondrial surface (PubMed:<a href="http://www.uniprot.org/citations/24599962" target="_blank">24599962</a>). May play a regulatory role in spermatogenesis or sperm function (PubMed:<a href="http://www.uniprot.org/citations/24599962" target="_blank">24599962</a>).

**Cellular Location**
Cytoplasm.

**Tissue Location**
Highly expressed in testis. Also expressed in brain, spleen and lung. Only expressed in cerebellum in fetal brain

## DDHD1 Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

## DDHD1 Blocking Peptide (C-term) - Images

## DDHD1 Blocking Peptide (C-term) - References

Simon-Sanchez, J., et al. Nat. Genet. 41(12):1308-1312(2009)
Houlston, R.S., et al. Nat. Genet. 40(12):1426-1435(2008)
Ma, J., et al. Atherosclerosis 191(1):63-72(2007)
Choy, K.W., et al. Physiol. Genomics 25(1):9-15(2006)
Higgs, H.N., et al. J. Biol. Chem. 273(10):5468-5477(1998)