

Recombinant Full Length Human ABHD12 Protein, C-Flag-tagged

Cat. No. ABHD12-1002HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ABHD12 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes an enzyme that catalyzes the hydrolysis of 2-arachidonoyl glycerol (2-AG), the main endocannabinoid lipid transmitter that acts on cannabinoid receptors, CB1 and CB2. The endocannabinoid system is involved in a wide range of physiological processes, including neurotransmission, mood, appetite, pain appreciation, addiction behavior, and inflammation. Mutations in this gene are associated with the neurodegenerative disease, PHARC (polyneuropathy, hearing loss, ataxia, retinitis pigmentosa, and cataract), resulting from an inborn error of endocannabinoid metabolism. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	44.9 kDa
AA Sequence	MRKRTEPVALEHERCAAAGSSSSGSAAAAALDADCRLKQNLRLTGPAAAEPRCAAD AGMKRALGRRKGVWL RLRKILFCVLGLYIAIPFLIKLCPGIQAKLIFLNFVRVPYFIDLK KPQDQGLNHTCNYYLQPEEDVTIGV WHTVPAVWWKNAQGKDQMWYEDALASSH

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PIILYLHGNAGTRGGDHRVELYKVLSSLGYHVVTFDYRGWGD SVGTPSERGMTYD
 ALHVFDWIKARSGDNPVYIWGHSLGTGVATNLVRRRCERETPPDALILESPFTNIRE
 EAKSHPFVSVIYRYFPGFDWFFLDPITSSGIKFANDENVKHISCPLLILHAEDDPVVPFQ
 LGRKLYSIAAP
 ARSFRDFKVQFVPFHSDLG YRHKYIYKSP ELPRI LREFLGKSEPEHQHTRTRPLEQK
 LISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Protease, Transmembrane
Full Length	Full L.

GENE INFORMATION

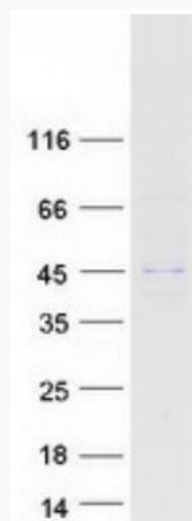
Gene Name	ABHD12 abhydrolase domain containing 12, lysophospholipase [Homo sapiens (human)]
Official Symbol	ABHD12
Synonyms	PHARC; ABHD12A; BEM46L2; hABHD12; C20orf22; dJ965G21.2

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Gene ID	26090
mRNA Refseq	NM_001042472.3
Protein Refseq	NP_001035937.1
MIM	613599
UniProt ID	Q8N2K0



Coomassie blue staining of purified ABHD12 protein.