

Recombinant human FAAH2, His-tagged

Cat. No. FAAH2-2459H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FAAH2 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
Description	FAAH2 is a fatty acid amide hydrolase that shares a conserved protein motif with the amidase signature family of enzymes. The encoded enzyme is able to catalyze the hydrolysis of a broad range of bioactive lipids, including those from the three main classes of fatty acid amides; N-acylethanolamines, fatty acid primary amides and N-acyl amino acids. This enzyme has a preference for monounsaturated acyl chains as a substrate.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	57.4kDa (524aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MSGGGPKFAS KTPRPVTEPL LLLSGMQLAK LIRQRKVKCI DVVQAYINRI KDVNPMINGI VKYRFEEAMKEAHAVDQKLA EKQEDEATLE NKWPFLGVPL TVKEAFQLQG MPNSSGLMNR RDAIAKTDAT VVALLKGAGA IPLGITNCSE LCMWYESSNK IYGRSNNPYD LQHIVGGSSG GEGCTLAAAC SVIGVGSDIG GSIRMPAFFN GIFGHKPSPG VVPNKGQFPL AVGAQELFLC TGPMCRYAEDLAPMLKVMAG PGIKRLKLDT KVHLKDLKFY WMEHDGGSFL MSKVDQDLIM TQKKVVVHLE TILGASVQHV KLKKMKYSFQ

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LWIAMMSAKG HDGKEPVKFV DLLGDHGHV SPLWELIKWC LGLSVYTIPS
 IGLALLEEK L RYSNEKYQKF KAVEESLRKE LVDMLGDDGV
 FLYPSHPTVAPKHHVPLTRP FNFAYTGVFS ALGLPVTQCP LGLNAKGLPL
 GIQVVAGPFN DHLTLAVAQY LEKTFGGWVC PGKF

Purity >80 % by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1.0 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name FAAH2 fatty acid amide hydrolase 2 [Homo sapiens]

Official Symbol FAAH2

Synonyms FAAH2; fatty acid amide hydrolase 2; AMDD, amidase domain containing; fatty-acid amide hydrolase 2; FAAH 2; FLJ31204; RP11 479E16.1; oleamide hydrolase 2; amidase domain containing; anandamide amidohydrolase 2; amidase domain-containing protein; AMDD;

Gene ID 158584

mRNA Refseq NM_174912

Protein Refseq NP_777572

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MIM	300654
UniProt ID	Q6GMR7
Chromosome Location	Xp11.1
Pathway	anandamide degradation, organism-specific biosystem;
Function	carbon-nitrogen ligase activity, with glutamine as amido-N-donor; hydrolase activity;

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