

FAAH2 Protein, Human, Recombinant (His)

General Information

Synonyms:	FAAH2;Amidase domain-containing protein;Oleamide hydrolase 2;Fatty-acid amide hydrolase 2;AMDD;Anandamide amidohydrolase 2
Protein Construction:	1-532 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q6GMR7
Molecular Weight:	59.8 kDa (predicted)
AA Sequence:	<p>MAPSFTARIQLFLLRALGFLIGLVGRAALVLGGPKFASKTPRPVTEPLLLLSGMQLAKLIRQRKVKCIDVVQAYI NRIKDVNPMINGIVKYRFEEAMKEAHAVDQKLAEKQEDEATLENKWPFLGVPLTVKEAFQLQGMPNSSGLM NRRDAIAKTDATVVALLKGAGAIPLGITNCSELCMWEYESSNKIYGRSNNPYDLQHIVGGSSGGEGCTLAAACS VIGVGSIDIGGSIRMPAFFNGIFGHKPSPGVVPKGFPLAVGAQELFLCTGPMCRYAEDLAPMLKVMAGPGIK RLKLDTKVHLKDLKIFYWMEHDGGSFLMSKVDQDLIMTQKKVVHLETILGASVQHVKLKKMKYSFQLWIAM MSAKGHDGKEPVKFDLLGDHGKHVSPLWELIKWCLGLSVYTIPSIGLALLEEKLRYSNEKYQKFKAVEESLRK ELVDMLGDDGVFLYPSHPTVAPKHHVPLTRPFNFAYTGVFSALGLPVTQCPLGLNAKGLPLGIQVVAGPFND HLTLAVAQYLEKTFGGWVCPGKF</p>

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:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & 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

Catalyzes the hydrolysis of endogenous amidated lipids like the sleep-inducing lipid oleamide ((9Z)-octadecenamide), the endocannabinoid anandamide (N-(5Z,8Z,11Z,14Z-eicosatetraenoyl)-ethanolamine), as well as other fatty amides, to their corresponding fatty acids, thereby regulating the signaling functions of these molecules. Hydrolyzes monounsaturated substrate anandamide preferentially as compared to polyunsaturated substrates.

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