

Product Data Sheet

Product Name: FAAH2 Human
 Cat. No.: GP21615
 Batch No.: 1

Product Data

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|---------------------|---|--------------------|-------------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | Fatty acid amide hydrolase 2; AMDD; Amidase domain-containing protein; Anandamide amidohydrolase 2; Oleamide hydrolase 2; FAAH2. | | |
| Amino Acid Sequence | <p>MGSSHHHHHH SGLVPRGSH MGSGGPKFAS KTPRPVTEPL LLLSGMQLAK LIRQRKVKCI DVVQAYINRI KDVNPMINGI VKYRFEEAMK EAHAVDQKLA EKQEDEATLE NKWPFLGVPL TVKEAFQLQG MPNSSGLMNR RDAIAKTDAT VVALLKGAGA IPLGITNCSE LCMWYESSNK IYGRSNNPYD LQHIVGGSSG GEGCTLAAAC SVIGVGSDIG GSIRMPAFFN GIFGHKPSPG VVPNKGQFPL AVGAQELFLC TGPMCRYAED LAPMLKVMAG PGIKRLKLDLTD KVHLKDLKFY WMEHDGGSFL MSKVDQDLIM TQKKVVHLE TILGASVQHV KLKMKYSFQ LWIAMMSAKG HDGKEPVKFV DLLGDHGKHV SPLWELIKWC LGLSVYTIPS IGLALLEEKL RYSNEKYQKF KAVEESLRKE LVDMLGDDGV FLYPSHPTVA PKHHVPLTRP FNFAYTGVFS ALGLPVTQCP LGLNAKGLPL GIQVVAGPFN DHLTLAVAQY LEKTFGGWVC PGKF.</p> | | |
| Formulation | The FAAH2 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea. | | |

Introduction

Fatty Acid Amide Hydrolase 2 (FAAH2) shares a conserved protein motif with the amidase signature family of enzymes. FAAH2 catalyzes the hydrolysis of a broad range of bioactive lipids, including those from the 3 main classes of fatty acid amides; N-acyl ethanolamines, fatty acid primary amides and N-acyl amino acids. FAAH2 is also degrades bioactive fatty acid amides to their corresponding acids, thus helping to end the signaling functions of these molecules. FAAH2 prefers monounsaturated acyl chains as a substrate.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

FAAH2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 524 amino acids (32-532a.a) and having a molecular mass of 57.4kDa. FAAH2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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