

Fatty Acid Amide Hydrolase 1, Active, Human Recombinant

CATALOG NO:	P1257-25	25 µg
ALTERNATE NAMES:	Anandamide amidohydrolase 1, Oleamide hydrolase 1	
SEQUENCE:	Full-length FAAH1 (579 amino acids) is fused with baculovirus secretion sequence at the N-terminus and 6x His-Tag at the C-terminus.	
SOURCE:	Sf9 cells	
MOL. WEIGHT:	68.3 kDa (1-579 aa)	
FORM:	Lyophilized	
RECONSTITUTION:	Reconstitute in deionized water to a final concentration of 1 µg/µl.	
STORAGE CONDITIONS:	Store the lyophilized enzyme at -20°C. The reconstituted enzyme can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C for two years. Avoid repeated freezing and thawing cycles.	
DESCRIPTION:	Fatty acid amide Hydrolase 1 (FAAH1) is an integral membrane enzyme that hydrolyzes endocannabinoid anandamide and related signaling lipids. Inactivation of FAAH1 produces analgesic, anti-inflammatory, anxiolytic and antidepressant responses.	
SPECIFIC ACTIVITY:	Specific activity is ≥ 9 mU/mg.	
UNIT DEFINITION:	One unit is the amount of enzyme that will hydrolyze 1.0 µmole of AMC Arachidonyl Amide at pH 9.0 and 37°C.	

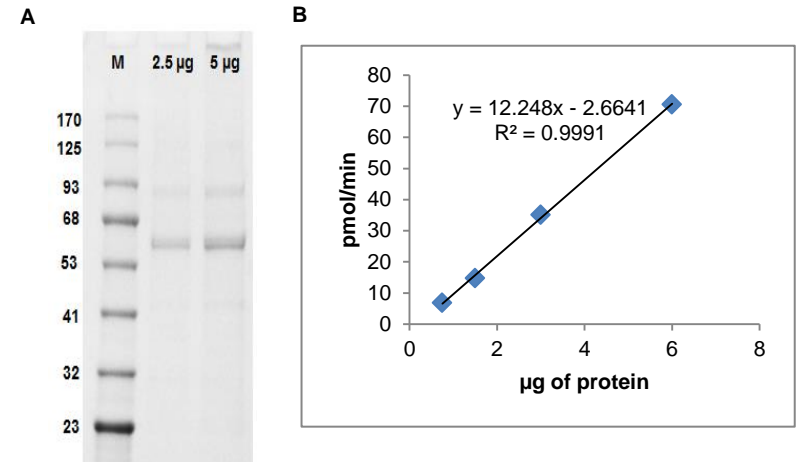


Fig A. SDS-PAGE (4-20%) recombinant FAAH1: Recombinant protein was loaded under reducing conditions and stained with Coomassie Blue. Lane M- MW marker, Lanes 2-3- FAAH1.

Fig B. Enzyme Activity Assay: The activity of the enzyme is 9 mU/mg. The enzyme's activity was assayed in 50 mM Tris pH 9, 1 mM EDTA at 37°C for 30 minutes. AMC fluorescence was measured at Ex/Em 360/465 nm.

RELATED PRODUCTS:

- FAAH Inhibitor (Cat. No. 1928)
- FAAH1 Inhibitor Screening Kit (Fluorometric) (Cat. No. K379)
- Fatty Acid Amide Hydrolase Activity Assay Kit (Fluorometric) (Cat. No. K434)
- FAAH Inhibitor, PF-622 (Cat. No.1928)

FOR RESEARCH USE ONLY! Not to be used on humans.