**Overview**

**Product name**
Fatty Acid Amide Hydrolase Activity Assay Kit (Fluorometric)

**Detection method**
Fluorescent

**Sample type**
Adherent cells, Suspension cells, Microsomes, Tissue Homogenate

**Sensitivity**
0.1 µU

**Product overview**
In Fatty Acid Amide Hydrolase Activity Assay Kit (Fluorometric) (ab252895), FAAH hydrolyzes a non-fluorescent substrate releasing 7-amino-4-methylcoumarin (AMC), a fluorophore, which can be easily measured at Ex/Em= 360/465 nm. The kit provides a specific inhibitor that can be used to compensate for potential non-specific background in unknown samples. The stable fluorescence signal is positively correlated to FAAH enzymatic activity in samples. The kit offers a rapid, simple, sensitive, reproducible assay and is suitable for detecting FAAH activity as low as 0.1 µU.

**Platform**
Microplate

**Properties**

**Storage instructions**
Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>100 tests</th>
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</thead>
<tbody>
<tr>
<td>AMC Standard (1 mM)</td>
<td>1 x 100µl</td>
</tr>
<tr>
<td>FAAH Assay Buffer</td>
<td>1 x 25ml</td>
</tr>
<tr>
<td>FAAH Inhibitor (in DMSO)</td>
<td>1 x 100µl</td>
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<tr>
<td>FAAH Positive Control</td>
<td>1 x 40µl</td>
</tr>
<tr>
<td>FAAH Substrate (in DMSO)</td>
<td>1 x 100µl</td>
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</tbody>
</table>

**Function**
Degrades bioactive fatty acid amides like oleamide, the endogenous cannabinoid, anandamide and myristic amide to their corresponding acids, thereby serving to terminate the signaling functions of these molecules. Hydrolyzes polyunsaturated substrate anandamide preferentially as compared to monounsaturated substrates.
**Tissue specificity**
Highly expressed in the brain, small intestine, pancreas, skeletal muscle and testis. Also expressed in the kidney, liver, lung, placenta and prostate.

**Sequence similarities**
Belongs to the amidase family.

**Cellular localization**
Endomembrane system. Cytoplasm > cytoskeleton. Seems to be attached to intracellular membranes and a portion of the cytoskeletal network.

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Images

AMC standard curve.

Lysates prepared from blank (no sample), rat liver microsome (RLM: 32 µg) and rat liver lysate (RLL: 80 µg) and FAAH Positive Control.

Activity of two rat liver microsome preparations (RLM1 and RLM2) and rat liver lysate (RLL: 80 µg).
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