Overview

Product name: Histamine Assay Kit (Colorimetric) ab235630

Detection method: Colorimetric

Assay type: Quantitative

Product overview: Histamine Assay Kit (Colorimetric) (ab235630) can be used to identify dangerous levels of histamine in various fish and meat products, as well as other fermented food and sauces/beverages. While the body is accustomed to exposure to low levels (30-50 ppm, or mg/L) of histamine, ingestion of food containing levels higher than several hundred parts per million can lead to adverse effects.

With this kit histamine can be detected in samples at concentrations as low as 10 μM, or 10 μg/mL (10 ppm). This kit is very specific and does not interact with other bioamines.

Notes: Histamine is a biogenic amine with considerable biological relevance. As a signaling molecule histamine plays manifold roles in the body, ranging from local immune responses to neurotransmission. Histamine is also frequently encountered in food, particularly fish and fermented food products such as sauerkraut and aged cheeses. This is because some bacteria generate histamine from histidine via the enzyme histidine decarboxylase. Elevated levels of bacterial fermentation can lead to elevated histamine in raw meat and food products. Histamine levels thus can be used as an indicator of spoilage.

Platform: Microplate reader

Properties

Storage instructions: Store at -20°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>100 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>Histamine Enzyme Mix</td>
<td>1 vial</td>
</tr>
<tr>
<td>Histamine Probe</td>
<td>1 vial</td>
</tr>
<tr>
<td>Histamine Standard (50 mM)</td>
<td>1 x 100μl</td>
</tr>
<tr>
<td>Histamine Assay Buffer</td>
<td>1 x 25ml</td>
</tr>
</tbody>
</table>

Relevance: Histamine is located in mast cells, endocrine cells of the gut, blood cells and in some cells of the
Peripheral and central nervous system. Histamine is a potent vasodilator when secreted by mast cells found in various tissues as a result of allergic hypersensitivity or inflammation. Histamine causes running nose, sneezing and itching, and narrows the airways in the lungs. In the central nervous system, Histamine is putative neurotransmitter. In the brain, its highest content has been found in the hypothalamus and in certain areas of the mesencephalon.

**Cellular localization**  
Secreted

**Images**

Histamine Standard Curve.

Example Data

Fish sauce was deproteinized using 10 kDa spin column and diluted 20-fold using Histamine Assay Buffer. Histamine concentrations are: Putrid Fish: 88 ± 8 ppm, Fish Sauce: 847 ± 27 ppm.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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