

## Feruloyl Esterase from Rumen Microorganism

### Product Information

<b>Cat#</b>	DIA-526
<b>Source</b>	Rumen microorganism
<b>Description</b>	High purity recombinant feruloyl esterase (rumen microorganism) for use in research, biochemical enzyme assays and in vitro diagnostic analysis.
<b>Form</b>	Suspension
<b>ECNumber</b>	3.1.1.73
<b>Activity</b>	~ 30 U/mg (40 °C, pH 6.5 on ethyl ferulate)
<b>CAS No.</b>	134712-49-5, 224306-54-1, 224306-55-2
<b>Optimum temperature</b>	40 °C
<b>Stability</b>	> 1 year under recommended storage conditions
<b>Unit Definition</b>	One unit of feruloyl esterase activity is defined as the amount of enzyme required to release one µmole of ferulic acid per minute from ethyl-ferulate (0.39 mM) in sodium phosphate buffer (100 mM), pH 6.5 at 40 °C.
<b>Storage</b>	2–8 °C
<b>Synonyms</b>	Feruloyl esterase; 4-hydroxy-3-methoxycinnamoyl-sugar hydrolase
<b>Buffer</b>	3.2 M ammonium sulphate
<b>Applications</b>	Applications established in biofuels, paper and pulp, food, nutrition, medical and pharmacological industries.
<b>Molecular Weight</b>	29000 Da
<b>Concentration</b>	~ 400 U/mL
<b>Specificity</b>	Catalyses the hydrolysis of the 4-hydroxy-3-methoxycinnamoyl (feruloyl) group from an esterified sugar, which is usually arabinose in "natural" substrates.