

Feruloyl Esterase from Rumen Microorganism

Product Information

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