



## Product Information

### Recombinant *Ruminococcus flavefaciens* cellulase 5A

**Cat. No.:** X23-08-YM204

**Size:** 1 mg; 2 mg; 3 mg; 6 mg

**Enzyme Commission Number:** 3.2.1.4

**Synonym:** RfCel5A; Beta-cellobiose

**This product is for research use only and is not intended for diagnostic use.**

#### Product Information

<b>Description</b>	Recombinant <i>Ruminococcus flavefaciens</i> cellulase 5A produced by <i>Escherichia coli</i> , possesses broad <i>exo</i> -1,3/1,6- $\beta$ -glucanase specificity and <i>endo</i> - $\beta$ -1,4-glucanase activity.
<b>Expression System</b>	<i>Escherichia coli</i>
<b>Species</b>	<i>Ruminococcus flavefaciens</i>
<b>Concentration</b>	1 mg/mL
<b>Form</b>	Liquid
<b>Purity</b>	$\geq 90\%$ , determined by SDS-PAGE.
<b>Activity</b>	Cellulases
<b>Buffer</b>	35 mM NaHepes buffer (pH 7.5), 750 mM NaCl, 200 mM imidazole, 3.5 mM $\text{CaCl}_2$ , and 25% (v/v) glycerol
<b>Applications</b>	Recombinant <i>Ruminococcus flavefaciens</i> cellulase 5A can be used in research for textile, animal food, pharmaceutical, detergent, and paper processing industries. It has the ability to hydrolyze acid-swollen cellulose, cellopentaose, cellotetraose, cellulosic carbohydrates, and lichenan.
<b>Storage</b>	Store at $-20^\circ\text{C}$ .