



## Product Information

### Recombinant *Ruminococcus flavefaciens* carbohydrate-binding module 78A

**Cat. No.:** X23-08-YM828

**Size:** 0.5 mg; 1 mg; 1.5 mg; 2 mg

**Synonym:** CMB 78A

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

#### Product Information

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>              | Recombinant <i>Ruminococcus flavefaciens</i> carbohydrate-binding module 78A produced by <i>Escherichia coli</i> , with ligand specificity of 1,3-1,4- $\beta$ -glucans, 1,4- $\beta$ -glucans, decorated 1,4- $\beta$ -glucans, xyloglucan, is a type of enzyme protein produced in <i>Escherichia coli</i> . It has multiple modules that specifically bind to carbohydrate substrates in order to carry out their function. |
| <b>Expression System</b>        | <i>Escherichia coli</i>                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>                  | <i>Ruminococcus flavefaciens</i>                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Concentration</b>            | 0.5 mg/mL                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Carbohydrate Specificity</b> | 1,3-1,4- $\beta$ -Glucans, cellulosic carbohydrates, xyloglucan                                                                                                                                                                                                                                                                                                                                                                |
| <b>Form</b>                     | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>                   | $\geq 90\%$ , determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Activity</b>                 | Carbohydrate binding modules                                                                                                                                                                                                                                                                                                                                                                                                   |
| <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> carbohydrate-binding module 78A can be used for glycobiology research.                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>                  | Store at $-20^\circ\text{C}$ .                                                                                                                                                                                                                                                                                                                                                                                                 |