

Cellobiohydrolase I from *Trichoderma longibrachiatum*

Product Information

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| Cat# | DIA-516 |
| Source | <i>Trichoderma longibrachiatum</i> |
| Description | High purity cellobiohydrolase I (<i>Trichoderma longibrachiatum</i>) for use in research, biochemical enzyme assays and in vitro diagnostic analysis. |
| Form | Suspension |
| ECNumber | 3.2.1.176 |
| Activity | ~ 0.1 U/mg (40 °C, pH 4.5 on p-nitrophenyl-β-lactoside) |
| CAS No. | 37329-65-0 |
| Optimum temperature | 70 °C |
| Stability | > 1 year under recommended storage conditions |
| Unit Definition | One unit of cellobiohydrolase I activity is defined as the amount of enzyme required to release one μmole of p-nitrophenol (pNP) per minute from p-nitrophenyl-β-lactoside (2.5 mg/mL) in sodium acetate buffer (100 mM), pH 4.5 and 40 °C. |
| Storage | 2–8 °C |
| Synonyms | 1,4-β-D-glucan cellobiohydrolase I |
| Buffer | 3.2 M ammonium sulphate |
| Applications | Applications established in analysis and research within the textiles, food and feed, carbohydrate and biofuels industries. |
| Molecular Weight | 65000 Da |
| Concentration | ~ 0.1 U/mL |
| Specificity | Hydrolysis of (1,4)-β-D-glucosidic linkages in cellulose and cellotetraose, releasing cellobiose from the non-reducing ends of the chains. Active on pNP β-lactoside. |