

Active Recombinant Bacillus sp. Cyclodextrin glucanotransferase 13A

Cat. No. Cdg13A-01B Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Bacillus sp. Cyclodextrin glucanotransferase 13A was expressed in E.coli.
Species	Bacillus sp.
Source	E.coli
Description	Tomato Brown Rugose Fruit Virus (ToBRFV) is an emerging, highly virulent virus that seriously threatens global production of tomatoes and peppers.
Form	Solution containing 35 mM NaHepes buffer (pH 7.5), 750 mM NaCl, 200 mM Imidazole, 3.5 mM CaCl ₂ , and 25% (v/v) glycerol
Bio-activity	The substrate specificity and kinetic properties are detailed in the referenced publication provided below. To perform enzyme assays and determine specific activity values, adhere to the methodology outlined in the cited paper(s).
Molecular Mass	~77.34 kDa
Purity	>90% by SDS-PAGE
Storage	Store at -20 centigrade.
Concentration	0.25 mg/mL

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

E.C.	2.4.1.19
Substrate Specificity	Hydrolyses starch and amylose
Temperature and pH optima	The pH optimum for enzymatic activity is 9 while temperature optimum is 40 centigrade.
Reference	1. Kimura et al. (1990) Agric Biol Chem. 54(3):641-8. 2. Kanai et al. (2001) J Biochem. 129(4):593-8.

GENE INFORMATION

Official Symbol	Cdg13A
Synonyms	Cdg13A; Cyclodextrin glucanotransferase 13A

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