

α,α-trehalose synthase

Cat. No. EXWM-2474

Lot. No. (See product label)

Introduction

Description Requires Mg2+ for maximal activity. The enzyme-catalysed reaction is reversible.

In the reverse direction to that shown above, the enzyme is specific for α,α -trehalose as substrate, as it cannot use α - or β -paranitrophenyl glucosides, maltose, sucrose, lactose or cellobiose. While the enzymes from the thermophilic

bacterium Rubrobacter xylanophilus and the hyperthermophilic archaeon

Pyrococcus horikoshii can use ADP-, UDP- and GDP- α -D-glucose to the same extent, that from the hyperthermophilic archaeon Thermococcus litoralis has a marked preference for ADP- α -D-glucose and that from the hyperthermophilic archaeon

Thermoproteus tenax has a marked preference for UDP- α -D-glucose.

Synonyms trehalose synthetase; UDP-glucose:glucose 1-

glucosyltransferase; TreT; PhGT; ADP-glucose:D-glucose $1-\alpha$ -D-glucosyltransferase

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Product Information

Form Liquid or lyophilized powder

EC Number EC 2.4.1.245

Reaction NDP- α -D-glucose = α , α -trehalose + NDP

Notes This item requires custom production and lead time is between 5-9 weeks. We can

custom produce according to your specifications.

Storage and Shipping Information

Store it at +4 °C for short term. For long term storage, store it at -20 °C∼-80 °C.

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