Active Recombinant Saccharomyces Cerevisiae ICDH protein

Cat. No. ICDH-81 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Saccharomyces Cerevisiae ICDH (NADP) was expressed in Yeast. The N-terminal amino acid Phenylalanine residue next to Met is substituted with Alanine for overexpression.
Species	S.cerevisiae
Source	Yeast
Description	Isocitrate Dehydrogenase is an enzyme of the oxidoreductase class that catalyzes the conversion of isocitrate and NAD+ to yield 2-ketoglutarate, carbon dioxide, and NADH. It occurs in cell mitochondria. The enzyme requires Mg2+, Mn2+; it is activated by ADP, citrate, and Ca2+, and inhibited by NADH, NADPH, and ATP. The reaction is the key rate-limiting step of the citric acid (tricarboxylic) cycle.
Form	One ml of solution (1mg/282ul)contains 0.075 mol/l KPO4, 50% Glycerol, pH 7.1.
Bio-activity	The specific activity was found to be 115 U/mg.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Unit Definition	One unit is defined as 1 μmol of NAD+ production per minute under the assay conditions (25 centigrade, pH 7.5).

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Storage	Store at 4 centigrade if entire vial will be used within 2-4 weeks. Store, frozen at -20 centigrade for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Full Length	Full L.

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