

Active Recombinant *Saccharomyces Cerevisiae* ICDH protein

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

SPECIFICATION

Product Overview	Recombinant full length <i>Saccharomyces Cerevisiae</i> ICDH (NADP) was expressed in Yeast. The N-terminal amino acid Phenylalanine residue next to Met is substituted with Alanine for overexpression.
Species	<i>S.cerevisiae</i>
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 Mg ²⁺ , Mn ²⁺ ; it is activated by ADP, citrate, and Ca ²⁺ , 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 KPO ₄ , 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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