

Nicotinamide Adenine Dinucleotide (NADH) Oxidases (SmNox)

Product Information

Cat#	DIA-781
Descriptions	Nicotinamide adenine dinucleotide (NADH) oxidases (SmNox) derived from Streptococcus mutans catalyze the oxidation of NADH to NAD ⁺ with concomitant reduction of molecular oxygen to water, serve as an efficient tool for NAD ⁺ regeneration in coupled enzymatic reactions, and effectively improve the economy of industrial biocatalytic processes.
Applications	Nicotinamide adenine dinucleotide (NADH) oxidases (SmNox) serve as core components for NAD ⁺ regeneration systems in biochemical detection kits and coupled enzymatic assay reagent development.
CAS No.	16-99-3
Enzyme Commission Number	EC 1.6.99.3
Enzyme Source	E.coli recombinant Sm NOX from Streptococcus mutans.
Reaction	$\text{NAD}^{++}\text{O}_2 = \text{NADH} + \text{H}_2\text{O}_2$
Activity Definition	One unit is defined as the amount of enzyme that catalyzes the formation of 1 μmol of NADH from NAD ⁺ at 37°C.