



Native Diaphorase (DPH) from Microorganism

Product Information

Cat#	BDE-035
Description	Diaphorase (DPH) mediates electron transfer using flavin as a cofactor and, when combined with tetrazolium salts, is widely used for signal amplification in NADH-based enzymatic assays.
Applications	Used for colorimetric signal amplification in NADH-related assay kits, widely applied in liver function, kidney function, and lipid analysis systems.
CAS No.	9001-18-7
Enzyme Commission Number	EC 1.6.5.2
Form	Yellow amorphous lyophilized powder
Source	Microorganism
Activity	≥ 600.0 U/mg
Unit Definition	One unit is defined as the amount of enzyme required to consume 1 μmol of DCPIP per minute under specified assay conditions.
Molecular Weight	28 kDa (SDS-PAGE)
Purity	≥ 90% by SDS-PAGE
Optimum pH	7.5
Optimum temperature	45°C
pH Stability	4.5-9.0 (25°C, 16 h)
Thermal Stability	< 50°C (pH 7.5, 30 min)
Isoelectric Point	5.8
Km Value	7.4×10 ⁻⁴ M (NADH), 6.0×10 ⁻² M (NADPH)



Creative Enzymes

Diagnostic Enzymes

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Inhibitors	Fe ³⁺ , Mn ²⁺ , Cu ²⁺
Protectant	FMN, NAD(P)H
Storage	Store at -25°C to -15°C for 12 months to maintain at least 90% activity.

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