

Native 3- α -hydroxysteroid Dehydrogenase (3 α -HSD) from Microorganism

Product Information

Cat#	BDE-025
Specification	3 KU, 100 KU, 500 KU, 1000 KU
Description	3- α -Hydroxysteroid Dehydrogenase (3 α -HSD) catalyzes the redox reactions of bile acids and androgens, playing a key role in liver function testing.
Applications	Used in total bile acid assay kits to enable enzymatic cyclic amplification detection of bile acids.
Enzyme Commission Number	EC 1.1.1.50
Form	White amorphous lyophilized powder
Source	Microorganism
Activity	≥ 55 U/mg
Unit Definition	One unit is defined as the amount of enzyme required to catalyze the production of 1 μ mol of NADH per minute under specified assay conditions.
Molecular Weight	30 kDa (SDS-PAGE)
Purity	$\geq 90\%$ by SDS-PAGE
Optimum pH	8.5-9.5
Optimum temperature	55°C
pH Stability	6.0-9.0 (25°C, 16 h)
Isoelectric Point	5.2
Km Value	3.6 $\times 10^{-5}$ M (androstene), 4.7 $\times 10^{-5}$ M (NAD ⁺)
Inhibitors	Cu ²⁺ , Ag ⁺ , Hg ²⁺ , Zn ²⁺ , Fe ³⁺
Protectant	BSA



Creative Enzymes

Diagnostic Enzymes

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Storage

Store at -25°C to -15°C for 12 months to maintain at least 90% activity.

Tel: 1-631-562-8517 1-516-512-3133

Email: info@creative-enzymes.com

Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA