

ADH-HT Protein, *Geobacillus stearothermophilus* (His, Strep)

Cat. No.:	HY-P702134
Synonyms:	Alcohol dehydrogenase; ADH-HT
Species:	Others
Source:	E. coli
Accession:	P42328 (K2-K339)
Gene ID:	/
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	ADH-HT Protein is a thermophilic NAD(+)-dependent alcohol dehydrogenase that predominantly functions as an ethanol dehydrogenase. This protein plays a crucial role in the metabolism of ethanol by catalyzing the conversion of ethanol to acetaldehyde, utilizing NAD(+) as a cofactor in the process. Its thermophilic nature enables ADH-HT to function optimally at high temperatures, making it particularly useful in industrial applications where elevated temperatures are required. The specificity of ADH-HT for ethanol and its reliance on NAD(+) make it a valuable enzyme in various biotechnological processes such as biofuel production and the synthesis of pharmaceutical intermediates. Understanding the characteristics and properties of ADH-HT Protein is vital for harnessing its potential applications in biotechnology and understanding its role in ethanol metabolism.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA