

## adhT Protein, Geobacillus stearothermophilus (His, Strep)

Cat. No.:	HY-P702141
Synonyms:	adhT; Alcohol dehydrogenase; ADH-T
Species:	Others
Source:	E. coli
Accession:	P12311 (K2-D337)
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	adhT is a NAD(+)-dependent alcohol dehydrogenase, a protein that catalyzes the oxidation of alcohols using NAD(+) as a cofactor. This enzymatic activity involves the conversion of alcohols to their corresponding aldehydes or ketones, accompanied by the reduction of NAD(+) to NADH. The specificity of adhT allows it to participate in various metabolic pathways, contributing to the breakdown of alcohols and the regeneration of NADH. As a key player in alcohol metabolism, adhT plays a role in maintaining cellular redox balance and energy homeostasis. Its activity is integral to processes such as fermentation, where the conversion of alcohols is a crucial step in energy production.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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