

ADH7 Protein, Human (HEK293, His)

Cat. No.:	HY-P7473
Synonyms:	rHuADH7, His; Alcohol dehydrogenase class 4 mu, sigma chain; ADH-7
Species:	Human
Source:	HEK293
Accession:	P40394 (M1-F386)
Gene ID:	131
Molecular Weight:	Approximately 44.0 kDa

PROPERTIES

AA Sequence	<pre> MFAEIQIQDK DRMGTAGKVI KCKAAVLWEQ KQPFSIEEIE VAPPKTKEVR IKILATGICR TDDHVIKGTM VSKFPVIVGH EATGIVESIG EGVTTVKPGD KVIPLFLPQC RECNA CRNP D GNLCIRSDIT GRGVLADGTT RFTCKGKPVH HFMNTSTFTE YTVVDESSVA KIDDAAPPEK VCLIGCGFST GYGAAVKTGK VKPGSTCVVF GLGGVGLSVI MGCKSAGASR IIGIDLNKDK FEKAMAVGAT ECISPKDSTK PISEVLSEMT GNNVG YTFEV IGHLETMIDA LASCHMNYGT SVVVGVP P S A FTGRTWKGCV FGG LKSRDDV PKLVTEFLAK KFDLDQLITH VLPFKKISEG FELLNSGQSI RTVLT FHHHH HHHH </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

ADH7 is a NADPH-dependent enzyme belongs to the superfamily of medium-chain alcohol dehydrogenase. ADH7 is regulated by miR-3065, and miR-3065 interacted with LINC01133. ADH7 is enriched in the retinoic acid metabolic process and the retinol metabolism pathway. ADH7 is significantly associated with the cervical cancer survival rate^{[1][2]}.

REFERENCES

- [1]. Ding S, et al. ADH7, miR-3065 and LINC01133 are associated with cervical cancer progression in different age groups. *Oncol Lett.* 2020 Mar;19(3):2326-2338.
- [2]. Nguyen TT, et al. The ADH7 Promoter of *Saccharomyces cerevisiae* is Vanillin-Inducible and Enables mRNA Translation Under Severe Vanillin Stress. *Front Microbiol.* 2015 Dec 11;6:1390.
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Caution: Product has not been fully validated for medical applications. For research use only.

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