ALDH3A1 Protein, Human (HEK293, His)

Cat. No.:	HY-P7477
Synonyms:	rHuAldehyde dehydrogenase family 3 member A1, His; ALDH-3A1; Aldehyde Dehydrogenase 3 member A1
Species:	Human
Source:	HEK293
Accession:	P30838 (M1-Q452)
Gene ID:	218
Molecular Weight:	Approximately 58.0 kDa

PROPERTIES

AA Sequence	M S K I S E A V K R A R A A F S S G R T R P L Q F R I Q Q L E A L Q R L I Q E Q E Q E L V G A L A A D L H K N E W N A Y Y E E V V Y V L E E I E Y M I Q K L P E W A A D E P V E K T P Q T Q Q D E L Y I H S E P L G V V L V I G T W N Y P F N L T I Q P M V G A I A A G N S V V L K P S E L S E N M A S L L A T I I P Q Y L D K D L Y P V I N G G V P E T T E L L K E R F D H I L Y T G S T G V G K I I M T A A A K H L T P V T L E L G G K S P C Y V D K N C D L D V A C R R I A W G K F M N S G Q T C V A P D Y I L C D P S I Q N Q I V E K L K K S L K E F Y G E D A K K S R D Y G R I I S A R H F Q R V M G L I E G Q K V A Y G G T G D A A T R Y I A P T I L T D V D P Q S P V M Q E E I F G P V L P I V C V R S L E E A I Q F I N Q R E K P L A L Y M F S S N D K V I K K M I A E T S S G G V A A N D V I V H I T L H S L P F G G V G N S G M G S Y H G K K S F E T F S H R R S C L V R P L M N D E G L K V R Y P P S P A K M T Q H H H H H H H H
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	Aldehyde dehydrogenase 3A1 (ALDH3A1) is an important member of the ALDH superfamily, which consists of NAD(P)+-dependent enzymes that oxidize a wide variety of endogenously produced and exogenously derived aldehydes to their corresponding carboxylic acids. ALDH3A1 is often overexpressed in esophagus-mucosa, minor salivary gland, nasal epithelium, tonsil and oral epithelium. ALDH3A1 has been shown to be upregulated in several cancer types, such as stomach cancer, lung cancer or oral squamous cell carcinoma (OSCC)[1].

REFERENCES

[1]. Qu Y, et al. ALDH3A1 acts as a prognostic biomarker and inhibits the epithelial mesenchymal transition of oral squamous cell carcinoma through IL-6/STAT3 signaling pathway. J Cancer. 2020 Feb 19;11(9):2621-2631.

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