AKR1C3 Protein, Human (HEK293, His)

Cat. No.:	HY-P7604
Synonyms:	rHuAKR1C3, His; AKR1C3; HA1753; Dihydrodiol Dehydrogenase Type I; Indanol Dehydrogenase; Prostaglandin F Synthase
Species:	Human
Source:	HEK293
Accession:	P42330 (M1-S323)
Gene ID:	8644
Molecular Weight:	Approximately 38.0 kDa

PROPERTIES

AA Sequence	M D S K H Q C V K L N D G H F M P V L G F G T Y A P P E V P R S K A L E V T K L A I E A G F R H I D S A H L Y N N E E Q V G L A I R S K I A D G S V K R E D I F Y T S K L W S T F H R P E L V R P A L E N S L K K A Q L D Y V D L Y L I H S P M S L K P G E E L S P T D E N G K V I F D I V D L C T T W E A M E K C K D A G L A K S I G V S N F N R R Q L E M I L N K P G L K Y K P V C N Q V E C H P Y F N R S K L L D F C K S K D I V L V A Y S A L G S Q R D K R W V D P N S P V L L E D P V L C A L A K K H K R T P A L I A L R Y Q L Q R G V V V L A K S Y N E Q R I R Q N V Q V F E F Q L T A E D M K A I D G L D R N L H Y F N S D S F A S H P N Y P Y S D E Y 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 from a 0.2 μm filtered solution of 20 mM PB, 6% Sucrose, 2% Glycine, 100 mM NaCl, 0.05% Tween 80, pH 6.0.
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	AKR1C3, an enzyme involved in the conversion of adrenal androgens into testosterone, is often upregulated in castration-

resistant prostate cancer (CRPC). AKR1C3 could be a marker for intratumoral steroidogenesis and subsequently could become a target for secondary hormonal treatment of CRPC[1].

REFERENCES

[1]. Agus Rizal A H Hamid, et al. Aldo-keto reductase family 1 member C3 (AKR1C3) is a biomarker and therapeutic target for castration-resistant prostate cancer. Mol Med. 2013 Jan 22;18(1):1449-55.

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