

Retinol dehydrogenase 12 Recombinant Protein | RDH12 recombinant protein

Recombinant Human Retinol dehydrogenase 12

CATALOG # AAA116496	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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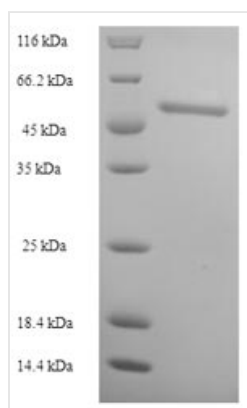
PRODUCT SYNONYMS

Retinol dehydrogenase 12; Recombinant Human Retinol dehydrogenase 12; All-trans and 9-cis retinol dehydrogenase; Short chain dehydrogenase/reductase family 7C member 2; RDH12 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-316. Full Length
Sequence	MLVTGLGLTS FFSFLYMPVAP SIRKFFAGGV CRTNVQLPGK VVITGANTG IGETARELA SRGARVYIAC RDVLKGESAA SEIRVDTKNS QVLVRKLDLS DTKSIRAF AE GFLAEEKQLH ILINNAGVMM CPYSKTADGF ETHLGVNHLG HFLTYLLLE RLKVSAPARV VNVSSVAHHI GKIPFHDLS EKRYSRGFAY CHSKLANVLF TRELA KRLQG TGVTTYAVHP GVVRSSELVRH SLLCLLWRL FSPFVKTARE GAQTS LHCAL AEGLEPLSGK YFSDCKRTWV SPRARNKTA ERLWNVSC EL LGIRWE
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for RDH12 recombinant protein	Exhibits an oxidoreductive catalytic activity towards retinoids. Most efficient as an NADPH-dependent retinal reductase. Displays high activity toward 9-cis and all-trans-retinol. Also involved in the metabolism of short-chain aldehydes. No steroid dehydrogenase activity detected. Might be the key enzyme in the formation of 11-cis-retinal from 11-cis-retinol during regeneration of the cone visual pigments.
Product Categories/Family for RDH12 recombinant protein	Metabolism

References

Complete sequencing and characterization of 21,243 full-length human cDNAs.Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S., Yamamoto J., Saito K., Kawai Y., Isono Y., Nakamura Y., Nagahari K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M., Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E., Omura Y., Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M., Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y., Ishida S., Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T., Kusano J., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O., Nomura Y., Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S., Yoshikawa Y., Matsunawa H., Ichihara T., Shiohata N., Sano S., Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O., Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H., Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B., Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y., Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T., Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y., Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S., Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T., Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M., Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T., Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K., Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R., Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.Nat. Genet. 36:40-45(2004) The DNA sequence and analysis of human chromosome 14.Heilig R., Eckenberg R., Petit J.-L., Fonknechten N., Da Silva C., Cattolico L., Levy M., Barbe V., De Berardinis V., Ureta-Vidal A., Pelletier E., Vico V., Anthouard V., Rowen L., Madan A., Qin S., Sun H., Du H., Pepin K., Artiguenave F., Robert C., Cruaud C., Bruels T., Jaillon O., Friedlander L., Samson G., Brottier P., Cure S., Segurens B., Aniere F., Samain S., Crespeau H., Abbasi N., Aiach N., Boscus D., Dickhoff R., Dors M., Dubois I., Friedman C., Gouyvenoux M., James R., Madan A., Mairey-Estrada B., Mangerot S., Martins N., Menard M., Oztas S., Ratcliffe A., Shaffer T., Trask B., Vacherie B., Bellemere C., Belser C., Besnard-Gonnet M., Bartol-Mavel D., Boutard M., Briez-Silla S., Combette S., Dufosse-Laurent V., Ferron C., Lechaplais C., Louesse C., Muselet D., Magdelenat G., Pateau E., Petit E., Sirvain-Trukniewicz P., Trybou A., Vega-Czarny N., Bataille E., Bluet E., Bordelais I., Dubois M., Dumont C., Guerin T., Haffray S., Hammadi R., Muanga J., Pellouin V., Robert D., Wunderle E., Gauguier G., Roy A., Sainte-Marthe L., Verdier J., Verdier-Discale C., Hillier L.W., Fulton L., McPherson J., Matsuda F., Wilson R., Scarpelli C., Gyapay G., Wincker P., Saurin W., Quetier F., Waterston R., Hood L., Weissenbach J.Nature 421:601-607(2003)

NCBI AND UNIPROT INFORMATION

NCBI GI #	186928839
NCBI GeneID	145226
NCBI Accession #	NP_689656.2
NCBI GenBank Nucleotide #	NM_152443.2
UniProt Accession #	Q96NR8; Q8TAW6; B2RDA2
Molecular Weight	51.1 kDa
NCBI Official Full Name	retinol dehydrogenase 12
NCBI Official Synonym Full Names	retinol dehydrogenase 12 (all-trans/9-cis/11-cis)
NCBI Official Symbol	RDH12
NCBI Official Synonym Symbols	RP53; LCA13; SDR7C2
NCBI Protein Information	retinol dehydrogenase 12
UniProt Protein Name	Retinol dehydrogenase 12
UniProt Gene Name	RDH12
UniProt Synonym Gene Names	SDR7C2
UniProt Entry Name	RDH12_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

