Product datasheet for TP762691

RDH12 (NM_152443) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human retinol dehydrogenase 12 (all-trans/9-cis/11-cis) (RDH12)
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding the region full length of RDH12
Tag:	N-GST and C-HIS
Predicted MW:	63.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	50 mM Tris-HCl, pH 8.0, 8 M urea
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_689656
Locus ID:	145226
UniProt ID:	Q96NR8, A0A0S2Z613
RefSeq Size:	1934
Cytogenetics:	14q24.1
RefSeq ORF:	948
Synonyms:	LCA13; RP53; SDR7C2

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Summary: The protein encoded by this gene is an NADPH-dependent retinal reductase whose highest activity is toward 9-cis and all-trans-retinol. The encoded enzyme also plays a role in the metabolism of short-chain aldehydes but does not exhibit steroid dehydrogenase activity. Defects in this gene are a cause of Leber congenital amaurosis type 13 and Retinitis Pigmentosa 53. [provided by RefSeq, Sep 2015]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Retinol metabolism

Product images:
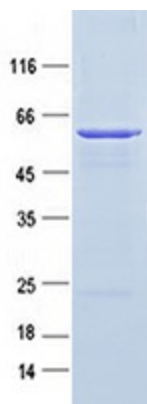
Purified recombinant protein RDH12 was analyzed by SDS-PAGE gel and Coomossie Blue Staining.