

## Product datasheet for **TP313029L**

### **ALDH8A1 (NM\_022568) Human Recombinant Protein**

#### **Product data:**

|  |   |
|--|---|
| <b>Product Type:</b>                         | Recombinant Proteins  |
| <b>Description:</b>                          | Recombinant protein of human aldehyde dehydrogenase 8 family, member A1 (ALDH8A1), transcript variant 1, 1 mg |
| <b>Species:</b>                              | Human   |
| <b>Expression Host:</b>                      | HEK293T   |
| <b>Expression cDNA Clone or AA Sequence:</b> | >RC213029 protein sequence<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)                                  |

MAGTNALLMLENFIDGKFLPCSSYIDSYPSTGEVYCRVPNSGKDEIEAAVKAAREAFPSWSSRSPQERS  
RVLNQVADLLEQSLEEFQAESKDQGKTLALARTMDIPRSVQNFRRFFASSSLHHTSECTQMDHLGCMHYT  
VRAPVGVAGLISPWNLPYLLTWKIAPAMAAGNTVIAKPSELTSVTAWMLCKLLDKAGVPPGVNIVFGT  
GPRVGEALVSHPEVPLISFTGSQPTAERITQLSAPHCKKLSLELGGKNPAIFEDANLDECIPATVRSSF  
ANQGEICLCTSRIFVQKSIYSEFLKRFVEATRKWKVGIPSDPLVSIGALISKAHLEKVRSYVKRALAEGA  
QIWCGEGVDKLSLPARNQAGYFMLPTVITDIKDESCMTEEIFGPVTCVVPFDSEEEVIERANNVKYGLA  
ATWSSNVGRVHRVAKKLQSGLVWTCNLIRELNLFPFGGMKSSGIGREGAKDSYDFTEIKTITVKH

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

|                       |  |
|-----------------------|--|
| <b>Tag:</b>           | C-Myc/DDK  |
| <b>Predicted MW:</b>  | 53.2 kDa   |
| <b>Concentration:</b> | >0.05 µg/µL as determined by microplate BCA method   |
| <b>Purity:</b>        | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| <b>Buffer:</b>        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| <b>Preparation:</b>   | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                     |
| <b>Note:</b>          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| <b>Storage:</b>       | Store at -80°C.  |
| <b>Stability:</b>     | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.        |



[View online »](#)

RefSeq: [NP\\_072090](#)

Locus ID: 64577

UniProt ID: [Q9H2A2](#)

RefSeq Size: 2567

Cytogenetics: 6q23.3

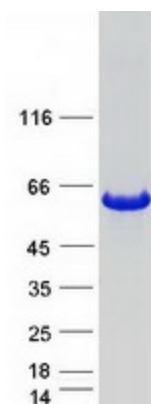
RefSeq ORF: 1461

Synonyms: ALDH12; DJ352A20.2

**Summary:** This gene encodes a member of the aldehyde dehydrogenase family of proteins. The encoded protein has been implicated in the synthesis of 9-cis-retinoic acid and in the breakdown of the amino acid tryptophan. This enzyme converts 9-cis-retinal into the retinoid X receptor ligand 9-cis-retinoic acid, and has approximately 40-fold higher activity with 9-cis-retinal than with all-trans-retinal. In addition, this enzyme has been shown to catalyze the conversion of 2-aminomuconic semialdehyde to 2-aminomuconate in the kynurenine pathway of tryptophan catabolism. [provided by RefSeq, Jul 2018]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified ALDH8A1 protein (Cat# [TP313029]). The protein was produced from HEK293T cells transfected with ALDH8A1 cDNA clone (Cat# [RC213029]) using MegaTran 2.0 (Cat# [TT210002]).