

## Product datasheet for **TP313029M**

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

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human aldehyde dehydrogenase 8 family, member A1 (ALDH8A1), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC213029 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MAGTNALLMLENFIDGKFLPCSSYIDSYPSTGEVYCRVPNSGKDEIEAAVKAAREAFPSWSSRSPQERS  
RVLNQVADLLEQSLEEFQAESKDQGKTLALARTMDIPRSVQNFRRFASSSLHHTSECTQMDHLGCMHYT  
VRAPVGVAGLISPWNLPYLLTWKIAPAMAAGNTVIAKPSELTSVTAWMLCKLLDKAGVPPGVNIVFGT  
GPRVGEALVSHPEVPLISFTGSQPTAERITQLSAPHCKKLSLELGGKNPAIFEDANLDECIPATVRSSF  
ANQGEICLCTSRIFVQKSIYSEFLKRFVEATRKKWVGIPSDPLVSIGALISKAHLEKVRSYVKRALAEGA  
QIWCGEGVDKLSLPARNQAGYFMLPTVITDIKDESCMTEEIFGPVTCVVPFDSEEEVIERANNVKYGLA  
ATWSSNVGRVHRVAKKLQSGLVWTCNLWIRELNLFPFGGMKSSGIGREGAKDSYDFFTEIKTITVKH

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	53.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_072090](#)

Locus ID: 64577

UniProt ID: [Q9H2A2](#)

RefSeq Size: 2567

Cytogenetics: 6q23.3

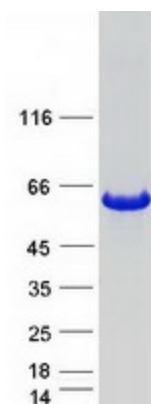
RefSeq ORF: 1461

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]).