

## Product datasheet for **TP323250**

### ALDH1A2 (NM\_003888) Human Recombinant Protein

#### Product data:

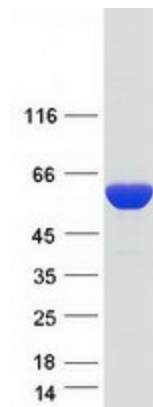
|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Recombinant protein of human aldehyde dehydrogenase 1 family, member A2 (ALDH1A2), transcript variant 1, 20 µg  |
| Species:                              | Human   |
| Expression Host:                      | HEK293T   |
| Expression cDNA Clone or AA Sequence: | >RC223250 representing NM_003888<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)  |
|                                       | <p>MTSSKIEMPGEVKADPAALMASLHLLPSPTPNLEIKYTKIFINNEWQNSESGRVFPVYNPATGEQVCEVQ<br/>EADKADIDKAVQAARLAFSLGSVWRRMDASERGRLLDKLADLVERDRAVLATMESLNGGKPFQAFYVDL<br/>QGVIKTFRYYAGWADKIHGMTIPVDGDYFTFTRHEPIGVCGQIIPWNFLLMFAWKIAPALCCGNTVVIK<br/>PAEQTPLSALYMGALIKEAGFPPGVINILPGYGPTAGAAIASHIGIDKIAFTGSTEVGKLIQEAAGRSNL<br/>KRVTLELGGKSPNIIFADADLDYAVEQAHQGVFFNQGCCTAGSRIFVEESIYEEFVRRSVERAKRRVWG<br/>SPFDPTTEQGPQIDKKQYNKILELIQSGVAEGAKLECGGKGLGRKGFIEPTVFSNVTDMMRIAKEEIFG<br/>PVQEILRFKTMDEVIERANNSDFGLVAAVFTNDINKALTVSSAMQAGTVWINCYNALNAQSPFGGFKMSG<br/>NGREMGFGLREYSEVKTVTVKIPQKNS</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p> |
| Tag:                                  | C-Myc/DDK   |
| Predicted MW:                         | 56.5 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.   |



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|--------------------------|--|
| <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.  |
| <b>RefSeq:</b>           | <a href="#">NP_003879</a>  |
| <b>Locus ID:</b>         | 8854   |
| <b>UniProt ID:</b>       | <a href="#">O94788</a>   |
| <b>RefSeq Size:</b>      | 3398   |
| <b>Cytogenetics:</b>     | 15q21.3  |
| <b>RefSeq ORF:</b>       | 1554   |
| <b>Synonyms:</b>         | RALDH(II); RALDH2; RALDH2-T  |
| <b>Summary:</b>          | This protein belongs to the aldehyde dehydrogenase family of proteins. The product of this gene is an enzyme that catalyzes the synthesis of retinoic acid (RA) from retinaldehyde. Retinoic acid, the active derivative of vitamin A (retinol), is a hormonal signaling molecule that functions in developing and adult tissues. The studies of a similar mouse gene suggest that this enzyme and the cytochrome CYP26A1, concurrently establish local embryonic retinoic acid levels which facilitate posterior organ development and prevent spina bifida. Four transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, May 2011] |
| <b>Protein Families:</b> | Druggable Genome   |
| <b>Protein Pathways:</b> | Metabolic pathways, Retinol metabolism   |

### Product images:



Coomassie blue staining of purified ALDH1A2 protein (Cat# TP323250). The protein was produced from HEK293T cells transfected with ALDH1A2 cDNA clone (Cat# [RC223250]) using MegaTran 2.0 (Cat# [TT210002]).