

## 32-8772: Recombinant Human Aldehyde Dehydrogenase 1-A2/ALDH1A2 (N-6His)

**Gene :** ALDH1A2

**Gene ID :** 8854

**Uniprot ID :** O94788

### Description

Source: E.coli.

MW :58.2kD.

Recombinant Human Aldehyde dehydrogenase 1-A2 is produced by our E.coli expression system and the target gene encoding Met1-Ser518 is expressed with a 6His tag at the N-terminus. Aldehyde dehydrogenase 1 family member A2 (ALDH1A2), also known as retinaldehyde dehydrogenase 2 (RALDH2), belongs to the aldehyde dehydrogenase family which contains two members, the ALDH1 s (ALDH1A1, ALDH1A2 and ALDH1A3) and the 9-cis retinaldehyde dehydrogenase ALDH8 s. ALDH1A2 is key enzyme that catalyzes the synthesis of retinoic acid (RA) from retinaldehyde. RA is a paracrine hormone signaling molecule that functions in developing and adult tissues. ALDH1A2 was also found to regulate normal and tumor cell growth and differentiation. Several studies showed that ALDH1A2 expression is increased after the appearance of AraC resistance in clinical cases which means this protein is effective in AraC resistance.

### Product Info

**Amount :** 10 µg / 50 µg

**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH7.5, 20% Glycerol.

**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

**Amino Acid :** MNHKVHHHHHMTSSKIEMPGEVKADPAALMASLHLLPSPTPNLEIKYTKIFINNEWQNSSEGRVF  
PVYNPATGEQVCEVQEADKADIDKAVQAARLAFSLGSVWRRMDASERGRLLDKLADLVERDRAVL  
ATMESLNGGKPFQAFYVDLQGVKTFRYYAGWADKIHGMTIPVDGDYFTFTRHEPIGVCGQIIPWN  
FPLLMFAWKIAPALCCGNTTVIKPAEQTPLSALYMGALIKEAGFPPGVINILPGYGPTAGAAIASHIGI  
DKIAFTGSTEVGKLIQEAAGRSNLKRVTLGLGKSPNIIFADADLDYAVEQAHQGVFFNQGCCTA  
GSRIFVEESIYEEFVRRSVERAKRRVVGSPFDPTTEQGPQIDKKQYNKILELIQSGVAEGAKLECGG  
KGLGRKGFFIEPTVFSNVTDDMRIAKKEEIFGPVQEILRFKTMDEVIERANNSDFGLVAAVFTNDINKA  
LTVSSAMQAGTVWINCYNALNAQSPFGGFKMSGNGREMGEFGLREYSEVKTVTVKIPQKNS

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.