Recombinant Human ALDH1A2 (E.coli,N-6His)

Catalog No: CP08

Description	Recombinant Human Aldehyde dehydrogenase family 1 member 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.
Expression System	E.coli
Alternative name	Aldehyde dehydrogenase family 1 member A2; Retinaldehyde-specific dehydrogenase type 2; RALDH(II); Retinal dehydrogenase 2; ALDH1A2; RALDH2
Accession No.	O94788
Predicted Molecular Weight	58.2kDa
Apparent Molecular Weight	50-65kDa, reducing conditions.
Quality Control	Purity: greater than 95% as determined by reducing SDS-PAGE. Endotoxin: less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris, 300mM NaCl, 1mM ZnCl2, 10% Glycerol, pH 7.4.
Shipping	The product is shipped on dry ice pack. Upon receipt, store it immediately at the temperature listed below.
Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Background	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.

SDS-PAGE