Recombinant Human ALDH1A3 (E.coli,N-6His)

Catalog No: CP15

Description	Recombinant Human Aldehyde dehydrogenase family 1 member A3 is produced by our *E.coli* expression system and the target gene encoding Met1-Pro512 is expressed with a 6His tag at the N-terminus.
Expression System	*E. coli*
Alternative name	Aldehyde dehydrogenase family 1 member A3; ALDH1A3; Aldehyde dehydrogenase 6; Retinaldehyde dehydrogenase 3; RALDH-3; ALDH6
Accession No.	P47895
Predicted Molecular Weight	57.5kDa
Apparent Molecular Weight	55-60kDa, 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. Bioactivity: measured by its ability to produce NADH during the oxidation of all trans-Retinal. The specific activity is 232.2 pmol/min/μg.
Formulation	Supplied as a 0.2 μm filtered solution of 20mM TrisHCl,150mMNaCl, pH7.5,20% Glycerol.
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 A3 (ALDH1A3), also known as retinaldehyde dehydrogenase 3 (RALDH3), is a member of the aldehyde dehydrogenase family known to metabolize a wide variety of aldehydes. ALDH1A3 specifically oxidizes retinal to retinoic acid (RA) and is differentially expressed in developing embryonic tissues and adult organs. The RA produced by ALDH1A3 in rodents contributes to the development of skin and hair follicles, brain, tooth buds, lungs, olfactory bulbs, kidneys, eyes, skeletal muscle and seminal vesicles. In recent research, ALDH1A3 could be as a marker of cancer stem cell to predict metastasis or clinical prognosis in many cancers.

SDS-PAGE