



Aldehyde dehydrogenase 1-A3 Recombinant Protein

CATALOG NUMBER: 92-704

Specifications

SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	Met1-Pro512
FUSION TAG:	N-6 His tag
TESTED APPLICATIONS:	
APPLICATIONS:	This recombinant protein can be used for biological assays. For research use only.

Properties

PURITY:	Greater than 95% as determined by reducing SDS-PAGE. Endotoxin level less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.
PREDICTED MOLECULAR WEIGHT:	57.5 kD
PHYSICAL STATE:	Liquid
BUFFER:	Supplied as a 0.2 um filtered solution of 20mM TrisHCl, 150mMNaCl, pH7.5, 20% Glycerol.
STORAGE CONDITIONS:	Store at -20°C, stable for 6 months after receipt. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Additional Info

ALTERNATE NAMES:	Aldehyde dehydrogenase family 1 member A3, ALDH1A3, Aldehyde dehydrogenase 6, Retinaldehyde dehydrogenase 3, RALDH-3, ALDH6
ACCESSION NO.:	P47895

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.

FOR RESEARCH USE ONLY

December 14, 2016