

Product datasheet for **TP724621**

ALDH1A3 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Aldehyde Dehydrogenase 1-A3/ALDH1A3 (N-His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Met1-Pro512
Tag:	N-6His
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mM HEPES, 150mM KCl, 1mM β -ME, 0.5mM EDTA, pH7.5.
Note:	Recombinant Human Aldehyde Dehydrogenase 1-A3 is produced by E.coli. The target gene encoding Met1-Pro512 is expressed with a 6His tag at the N terminus.
Stability:	12 months from date of despatch
Locus ID:	220
UniProt ID:	P47895
Summary:	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. It is required for the biosynthesis of normal levels of retinoic acid in the embryonic ocular and nasal regions. 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. Recent studies showed ALDH1A3 could also be used as a marker of cancer stem cells to predict metastasis or clinical prognosis in many cancers.



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