# **Recombinant Human ALDH1A3 Protein (His Tag)**

Catalog Number: PKSH033774



Note: Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

Synonyms Aldehyde dehydrogenase family 1 member A3;ALDH1A3;Aldehyde dehydrogenase

6;Retinaldehyde dehydrogenase

3;RALDH-3;ALDH6;ALDH1A6;MCOP8;RALDH3

SpeciesHumanExpression HostE.coli

SequenceMet1-Pro512AccessionP47895Calculated Molecular Weight57.5 kDaObserved molecular weight55-60 kDaTagN-His

### **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage** Store at  $< -20^{\circ}$ C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping** This product is provided as liquid. It is shipped at frozen temperature with blue

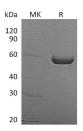
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, 20%

Glycerol, pH 7.5.

**Reconstitution** Not Applicable

#### Data



> 95 % as determined by reducing SDS-PAGE.

## **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.

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