

Recombinant Protein Technical Manual Recombinant Human ALDH1A3 Protein (His Tag)

RPES4728

Product Data:

Product SKU: RPES4728 **Size:** 10μg

Species: Human Expression host: E. coli

Uniprot: P47895

Protein Information:

Molecular Mass: 57.5 kDa

AP Molecular Mass: 55-60 kDa

Tag: N-His

Bio-activity:

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

Endotoxin: $< 1.0 \text{ EU per } \mu\text{g}$ as determined by the LAL method.

Storage: Store at < -20°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. Upon receipt, store it immediately at<-20°C.

Formulation: Supplied as a 0.2 μm filtered solution of 20mM TrisHCl,150mMNaCl, pH7.5,20%

Glycerol.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

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

dehydrogenase 6; Retinaldehyde dehydrogenase 3; RALDH-3;

ALDH6;ALDH1A6;MCOP8;RALDH3

Immunogen Information:

Sequence: Met1-Pro512

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.