

## Datasheet for ABIN7194201 ALDH4A1 Protein (GST tag,His tag)



Overview Quantity: 100 µg Target: ALDH4A1 Origin: Human Source: Baculovirus infected Insect Cells Protein Type: Recombinant Purification tag / Conjugate: This ALDH4A1 protein is labelled with GST tag, His tag. **Product Details** Purpose: Recombinant Human ALDH4A1 Protein (His & GST Tag) Sequence: Lys 25-Gln 563 Characteristics: A DNA sequence encoding the mature form of human ALDH4A1 (AAH07581.1) (Lys 25-Gln 563) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus. Purity: > 80 % as determined by reducing SDS-PAGE. Endotoxin Level: < 1.0 EU per  $\mu$ g as determined by the LAL method.

## Target Details

Target:	ALDH4A1
Alternative Name:	ALDH4A1 (ALDH4A1 Products)
Background:	Background: ALDH4A1 is a member of the aldehyde dehydrogenase family. Aldehyde dehydrogenase enzymes function in the metabolism of many molecules including certain fats (cholesterol and other fatty acids) and protein building blocks (amino acids). Additional

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aldehyde dehydrogenase enzymes detoxify external substances, such as alcohol and
pollutants, and internal substances, such as toxins that are formed within cells. ALDH4A1 is
expressed abundantly in liver followed by skeletal muscle, kidney, heart, brain, placenta, lung
and pancreas. It is a mitochondrial matrix NAD-dependent dehydrogenase which catalyzes the
second step of the proline degradation pathway, converting pyrroline-5-carboxylate to
glutamate. Defects in ALDH4A1 are the cause of hyperprolinemia type 2 (HP-2). HP-2 is
characterized by the accumulation of delta-1-pyrroline-5-carboxylate (P5C) and proline. The
disorder may be causally related to neurologic manifestations, including seizures and mental
retardation.
Synonym: ALDH4,P5CD,P5CDh
86.8 kDa
Monocarboxylic Acid Catabolic Process
For Research Use only
Lyophilized
Please refer to the printed manual for detailed information.
Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 8.5, 10 % glycerol
4 °C,-20 °C,-80 °C
Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted