Recombinant Human ALDH3A1 Protein (Human Cells, His Tag)

Catalog No. PKSH033327

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

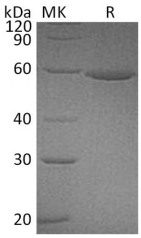
Description

Synonyms	Aldehyde dehydrogenase;dimeric NADP-preferring;;ALDH3;ALDH3A1;Aldehyde dehydrogenase family 3 member A1;Aldehyde dehydrogenase 3;ALDHIII;ALDH3A10
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-His453
Accession	AAH04370.1
Calculated Molecular Weight	51.4 kDa
Observed molecular weight	58 kDa
Tag	C-His
Bioactivity	Not validated for activity

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	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

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Aldehyde dehydrogenase, dimeric NADP-preferring is an enzyme that in humans is encoded by the ALDH3A1 gene, belongs to the aldehyde dehydrogenase family. ALDHs play a major role in the detoxification of alcohol-derived acetaldehyde. They are involved in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. This protein preferentially oxidizes aromatic aldehyde substrates. It may play a role in the oxidation of toxic aldehydes.

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