

Human AKR1C2 Protein (His Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 14175-H07E

General Information

Gene Name Synonym:

AKR1C-pseudo; AKR1C2; BABP; DD; DD-2; DD/BABP; DD2; DDH2; HAKRD; HBAB; MCDR2; SRXY8; TDD

Protein Construction:

A DNA sequence encoding the mature form of human AKR1C2 (P52895-1) (Met1-Tyr323) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human AKR1C2 consists of 338 amino acids and predicts a molecular mass of 38.6 KDa. It migrates as an approximately 37 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

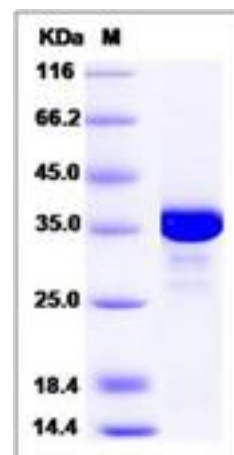
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

AKR1C2 is a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. These enzymes catalyze the conversion of aldehydes and ketones to their corresponding alcohols using NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme binds bile acid with high affinity, and shows minimal 3-alpha-hydroxysteroid dehydrogenase activity. AKR1C2 gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. Three transcript variants encoding two different isoforms have been found for AKR1C2 gene.

References

1. Jin Y. et al., 2011, Biochem J. 437 (1): 53-61. 2. Veilleux A. et al., 2012, Am J Physiol Endocrinol Metab. 302 (8): E941-9. 3. Kuang P. et al., 2012, Lung Cancer. 77 (2): 427-32.

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