

## Recombinant Human AKR1C3 Protein (His Tag)

Catalog Number: PKSH032055

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

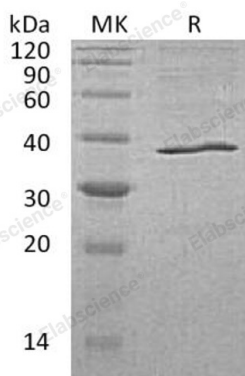
### Description

<b>Species</b>	Human
<b>Source</b>	HEK293 Cells-derived Human AKR1C3 protein Met 1-Tyr323, with an C-terminal His
<b>Calculated MW</b>	37.9 kDa
<b>Observed MW</b>	38 kDa
<b>Accession</b>	P42330
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	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 samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 6% Sucrose, 2% Glycine, 100mM NaCl, 0.05% Tween 80, pH 6.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

AKR1C3, is an enzyme which belongs to the aldo/keto reductase family. It is expressed in many tissues including adrenal gland, brain, kidney, liver, lung, mammary gland, placenta, small intestine, colon, spleen, prostate and testis. AKR1C3 catalyzes the conversion of aldehydes and ketones to alcohols. It catalyzes the reduction of prostaglandin (PG) D2, PGH2 and phenanthrenequinone (PQ) and the oxidation of 9-alpha,11-beta-PGF2 to PGD2, which functions as a bi-directional 3-alpha-, 17-beta- and 20-alpha HSD. It can interconvert active androgens, estrogens and progestins with their cognate inactive metabolites.

### For Research Use Only

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