

## Product datasheet for **AR09154PU-N**

### AKR1C3 / DDH3 (1-323, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	AKR1C3 / DDH3 (1-323, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SSSLVPRGSH</u> MDSKHQCVKL NDGHFMPVLG FGTYAPPEVP RSKALEVTKL AIEAGFRHID SAHLYNNEEQ VGLAIRSKIA DGSVKREDIF YTSKLWSTFH RPELVRPALE NSLKKAQLDY VDLYLIHSPM SLKPGEELSP TDENGKVIFD IVDLCTTWEA MEKCKDAGLA KSIGVSNFNR RQLEMILNKP GLKYKPCNQ VECHPYFNRS KLLDFCKSKD IVLVAYSALG SQRDKRWVDP NSPVLLEDPV LCALAKKHKR TPALIALRYQ LQRGVVWLAK SYNEQRIRQN VQVFEFQLTA EDMKAIDGLD RNLHYFNSDS FASHPNYPYS DEY
Tag:	His-tag
Predicted MW:	39 kDa
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol
Bioactivity:	Biological: Specific activity is > 1,000 pmol/min/μg, and is defined as the amount of enzyme that catalyze the reduction of 1.0 pmole 1-Acenaphthenol presence of NADP per minute at pH 8.8 at 25°C.
Endotoxin:	< 1.0 EU per 1 μg of protein (determined by LAL method)
Preparation:	Liquid purified protein
Protein Description:	Recombinant human AKR1C3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u><a href="#">NP_001240837</a></u>



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Locus ID:	8644
UniProt ID:	<a href="#">P42330</a>
Cytogenetics:	10p15.1
Synonyms:	HSD17B5, KIAA0119, PGFS, Dihydrodiol dehydrogenase 3, 3-alpha-HSD type II, 17-beta-hydroxysteroid dehydrogenase type 5
Summary:	<p>This gene encodes 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 by utilizing NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme catalyzes the reduction of prostaglandin (PG) D2, PGH2 and phenanthrenequinone (PQ), and the oxidation of 9alpha,11beta-PGF2 to PGD2. It may play an important role in the pathogenesis of allergic diseases such as asthma, and may also have a role in controlling cell growth and/or differentiation. This 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 different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]</p>
Protein Families:	Druggable Genome
Protein Pathways:	Arachidonic acid metabolism, Metabolism of xenobiotics by cytochrome P450

### Product images:

