Recombinant Full Length Human AKR1C3 Protein, C-Flag-tagged

Cat. No. AKR1C3-1971HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human AKR1C3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	36.7 kDa
AA Sequence	MDSKHQCVKLNDGHFMPVLGFGTYAPPEVPRSKALEVTKLAIEAGFRHIDSAHLYNN

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	EEQVGLAIRSKIA DGSVKREDIFYTSKLWSTFHRPELVRPALENSLKKAQLDYVDLYL IHSPMSLKPGEELSPTDENGKVIFD IVDLCTTWEAMEKCKDAGLAKSIGVSNFNRRQ LEMILNKPGLKYKPVCNQVECHPYFNRSKLLDFCKSKD IVLVAYSALGSQRDKRWV DPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQN VQVFE FQLTAEDMKAIDGLDRNLHYFNSDSFASHPNYPYSDEY TRTRPLEQKLISEEDLAAN DILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Arachidonic acid metabolism, Metabolism of xenobiotics by cytochrome P450
Full Length	Full L.

GENE INFORMATION

Gene Name	AKR1C3 aldo-keto reductase family 1 member C3 [Homo sapiens (human)]
Official Symbol	AKR1C3

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Synonyms	DD3; DDX; PGFS; HAKRB; HAKRe; HA1753; HSD17B5; hluPGFS
Gene ID	8644
mRNA Refseq	NM_003739.6
Protein Refseq	NP_003730.4
MIM	603966
UniProt ID	P42330

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