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DATA SHEET

Aldo-Keto Reductase Family 1 Member C3 Human Recombinant

Item Number	rAP-1778
Synonyms	DD3, DDX, HAKRB, HAKRe, HA1753, HSD17B5, hluPGFS, KIAA0119, AKR1C3, Aldo-keto reductase family 1 member C3, 3-alpha-HSD type 2, 17-beta-HSD 5, PGFS, DD-3.
Description	AKR1C3 Human Recombinant fused to 20 amino acid His Tag at N-terminal produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 343 amino acids (1-323 a.a.) and having a molecular mass of 39 kDa. The AKR1C3 is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P42330
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MDSKHQCVKL NDGHFMPVLG FGTYAPPEVP RSKALEVTKL AIEAG-FRHID SAHLYNNEEQ VGLAIRSKIA DGSVKREDIF YTSKLWSTFH RPELVRPALE NSLKKAQLDY VDLYLIHSPM SLKPGEELSP TDENGKVIFD IVDLCTTWEA MEKCKDAGLA KSIGVSNFNR RQLEMILNKPGLKYKPVCNQ VECHPYFNRS KLLDFCKSKD IVLVAYSALG SQRDKRWVDP NSPVLLEDPV LCALAKKHKR TPALIALRYQ LQRGVVVLAK SYNEQRIRQN VQVFEFQLTA ED-MKAIDGLD RNLHYFNSDS FASHPNYPYS DEY.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered clear colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Formulation and Purity	The AKR1C3 solution contains 20mM Tris-HCl pH-8 and 10% glycerol. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	Specific activity: approximately Enzymatic activity was confirmed by measuring the amount of enzyme catalyzing the oxidation of 1 micromole NADPH per minute at 25C. Specific activity was expressed as units/mg protein.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for Research Use Only