
Product Data Sheet

Product Name: SDR16C5 Human
 Cat. No.: GP24513
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	RDH#2; RDH-E2; RDHE2; Epidermal retinol dehydrogenase 2; EPHD-2; Retinal short-chain dehydrogenase reductase 2; retSDR2; Short-chain dehydrogenase/reductase family 16C member 5; SDR16C5.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSPKPRKNV AGEIVLITGA GSGLGRLLAL QFARLGSVLV LWDINKEGNE ETCKMAREAG ATRVHAYTCD CSQKEGVYRV ADQVKKEVGD VSILINNAGI VTGKKFLDCP DELMEKSF DV NFKAHLWTYK AFLPAMIAND HGHLVCISSS AGLSGVNGLA DYCASKFAAF GFAESVFVET FVQKQKGIKT TIVCPFFIKT GMFEGCTTGC PSLLPILEPK YAVEKIVEAI LQEKMYLYMP K.		
Formulation	SDR16C5 protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

Short chain dehydrogenase/reductase family 16C, member5 (SDR16C5) is active in the oxidative direction as well as in the reductive one. SDR16C5 oxidizes all-trans-retinol in all-trans-retinaldehyde. No activity was detected with 11-cis-retinol or 11-cis-retinaldehyde as substrates with either NAD⁺/NADH or NADP⁺/NADPH.

Stability

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.

Background

SDR16C5 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 261 amino acids (32-269 a.a.) and having a molecular

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mass of 28.3kDa. SDR16C5 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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