

SDR16C5, 32-269aa, Human, His tag, E.coli

Cat.NO.: TP03875

3th Edition

Synonyms:Short chain dehydrogenase/reductase family 16C, member5, RDH#2, RDH-E2, RDHE2

Description:Short chain dehydrogenase/reductase family 16C, member5, also known as SDR16C5, is active in both the oxidative and reductive directions. This protein 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. Recombinant human SDR16C5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Molecular Weight:28.3 kDa (261aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSPKPRKNVAGEIVLITGAGSGLGRLLALQFARLGSVLVLWDINKEGNEETCKM
AREAGATRVHAYTCDCSQKEGVYRVADQVKKEVGDVSIINNAGIVTGKKFLDCPDELMEKSFDVNFKAHLWYKA
FLPAMIANDHGHLCISSSAGLSGVNGLADYCAKFAAFGFAESVVFVETVQKQKGIKTTIVCPFFIKTGMFEGCTTG
CPSLLPILEPKYAVEKIVEAILQEKMVLYMPK

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.