AKR1C1, 1-323aa, Human, His tag, E.coli

Cat.NO.: TP01107

3th Edition

Synonyms: Aldo-keto reductase family 1, member C1; 20-alpha-HSD; DD1/DD2; HBAB; DDH; DDH1.

Description:AKR1C1 is 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.

Form: Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 20% glycerol

Molecular Weight:38.9 kDa (343aa), confirmed by MALDI-TOF

Sequences:
MGSSHHHHHHSSGLVPRGSHMDSKYQCVKLNDGHFMPVLGFGTYAPAEVPKSKALEATKLAIEAGFRHIDSAHLY
NNEEQVGLAIRSKIADGSVKREDIFYTSKLWCNSHRPELVRPALERSLKNLQLDYVDLYLIHFPVSVKPGEEVIPKDE
NGKILFDTVDLCATWEAVEKCKDAGLAKSIGVSNFNRRQLEMILNKPGLKYKPVCNQVECHPYFNQRKLLDFCKSK
DIVLVAYSALGSHREEPWVDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEF
QLTSEEMKAIDGLNRNVRYLTLDIFAGPPNYPFSDEY

Purity:> 95% by HPLC

Concentration:0.5 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.