



Recombinant Human 3-oxo-5-beta-steroid 4-dehydrogenase (AKR1D1)

Product Code	CSB-EP001548HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P51857
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MDLSAASHRI PLSDGNSIPI IGLGTYSEPK STPKGACATS VKVAIDTGYR HIDGAYIQN EHEVGEAIRE KIAEGKVRRE DIFYCGKLWA TNHVPENMRP TLERTLRVLQ LDYVDLYIIE VPMFAKPGDE IYPRDENGKW LYHKSNLKAT WEAMEACKDA GLVKSLGVSF FNRRQLELIL NKPGLKHKPV SNQVECHPYF TQPCLKKFCQ QHDIVITAYS PLGTSRNPWF VNVSSPPLLK DALLNSLGKR YNKTAQIVL RFNIQRGVVV IPKSFNLERI KENFQIFDFS LTEEEMKDIE ALNKNVRFVE LLMWRDHPEY PFHDEY
Source	E.coli
Target Names	AKR1D1
Protein Names	Recommended name: 3-oxo-5-beta-steroid 4-dehydrogenase EC= 1.3.1.3 Alternative name(s): Aldo-keto reductase family 1 member D1 Delta(4)-3- ketosteroid 5-beta-reductase Delta(4)-3-oxosteroid 5-beta-reductase
Expression Region	1-326
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	The enzyme encoded by this gene is responsible for the catalysis of the 5-beta-reduction of bile acid intermediates and steroid hormones carrying a delta(4)-3-one structure. Deficiency of this enzyme may contribute to hepatic dysfunction.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.