

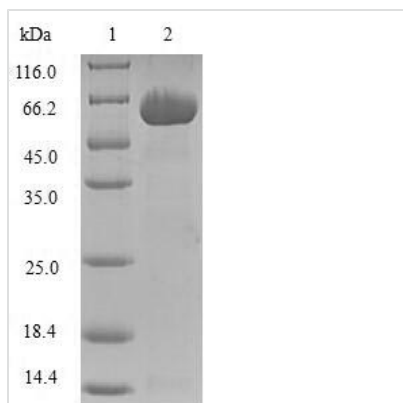


Recombinant Human Aldo-keto reductase family 1 member C3 (AKR1C3)

Product Code	CSB-EP001544HU
Relevance	Catalyzes the conversion of aldehydes and ketones to alcohols. Catalyzes the reduction of prostaglandin (PG) D2, PGH2 and phenanthrenequinone (PQ) and the oxidation of 9-alpha,11-beta-PGF2 to PGD2. Functions as a bi-directional 3-alpha-, 17-beta- and 20-alpha HSD. Can interconvert active androgens, estrogens and progestins with their cognate inactive metabolites. Preferentially transforms androstenedione (4-dione) to testosterone.
Abbreviation	Recombinant Human AKR1C3 protein
Storage	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.
Uniprot No.	P42330
Alias	17-beta-hydroxysteroid dehydrogenase type 5
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MDSKHQCVKLNDGHFMPVLGFGTYAPPEVPRSKALEVTKLAI EAGFRHIDSAH LYNNEEQVGLAIRSKIADG SVKREDIFYTSKLWSTFHRPELVRPALENSLKKAQ LDYVDLYLIHSPMSLKPGEELSPTDENGKVIFDIVDLCTTWEAMEKCKDAGLAK SIGVSNFNRRQLEMILNKPGLKYKPV CNQVECHPYFNRSKLLDFCKSKDIVLVA YSALGSQRDKRWVDPNSPVLL EDPVLCALAKKHKRTPALIALRYQLQRGVVVL AKSYNEQRIRQNVQVFEFQLTAEDMKAIDGLDRNLHYFN SDFSASHPNYPYS EY
Research Area	Signal Transduction
Source	E.coli
Target Names	AKR1C3
Protein Names	Recommended name: Aldo-keto reductase family 1 member C3 EC= 1.-.-. Alternative name(s): 17-beta-hydroxysteroid dehydrogenase type 5 Short name= 17-beta-HSD 5 3-alpha-HSD type II, brain 3-alpha-hydroxysteroid dehydrogenase t
Expression Region	1-323aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	63.9kDa

**Protein Length**

Full Length

Image

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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.