

Recombinant Human Aldo-keto reductase family 1 member C2(AKR1C2)

Catalog No: #AP70027

Package Size: #AP70027-1 20ug #AP70027-2 100ug #AP70027-3 1mg

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Description

Product Name	Recombinant Human Aldo-keto reductase family 1 member C2(AKR1C2)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-323aaSequence Info:Full Length
Other Names	3-alpha-HSD;3Chlordecone reductase homolog HAKRD;Dihydrodiol dehydrogenase 2 ;DD-2 ;DD2Dihydrodiol dehydrogenase,bile acid-binding protein ;DD,BABPTrans-1,2-dihydrobenzene-1,2-diol dehydrogenase (EC:1.3.1.20);Type III 3-alpha-hydroxysteroid dehydrogenase (EC:1.1.1.357)
Accession No.	P52895
Calculated MW	52.7 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MDSKYQCVKLNDGHFMPVLGFGTYAPAEVPKSKALEAVKLAIEAGFHHIDSAHVYNNEEQVGLAIRSKIADGS VKREDIFYTSKLWSNSHRPELVRPALERSLKNLQLDYVDLYLIHFVSVKPGEEVIPKDENGKILFDTVDLCATW EAMEKCKDAGLAKSIGVSNFNHRLLEMILNKPGLKYKPCVNQVECHPYFNQRKLLDFCKSKDIVLVAYSALGS HREEPWVDPNSPVLLDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEFQLTSEEMK AIDGLNRNVRYLTLDIFAGPPNYPFSDEY
Formulation	Tris-based buffer50% glycerol
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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Works in concert with the 5-alpha,5-beta-steroid reductases to convert steroid hormones into the 3-alpha,5-alpha and 3-alpha,5-beta-tetrahydrosteroids. Catalyzes the inactivation of the most potent androgen 5-alpha-dihydrotestosterone (5-alpha-DHT) to 5-alpha-androstane-3-alpha,17-beta-diol (3-alpha-diol). Has a high bile-binding ability.

References

Molecular cloning of multiple cDNAs encoding human enzymes structurally related to 3 alpha-hydroxysteroid dehydrogenase.Qin K.-N., New M.I., Cheng K.-C.J. Steroid Biochem. Mol. Biol. 46:673-679(1993)Research Topic:Metabolism

Note: This product is for in vitro research use only and is not intended for use in humans or animals.