

Product datasheet

Recombinant Human Steroidogenic Factor 1/SF-1 protein ab114599

[1 Image](#)

Description

Product name	Recombinant Human Steroidogenic Factor 1/SF-1 protein
Expression system	Wheat germ
Accession	<u>Q13285</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MDYSYDEDLDELCPVCGDKVSGYHYGLLTCESCKGFFKR TVQNNKHYTCT ESQSCKIDKTQRKRCPCRFQKCLTVGMRLEAVRADMR GGRNKFGPMYK RDRALKQQKKAQIRANGFKLETGPPMGVPPPPPPAPDYV LPPSLHGPEPK GLAAGPPAGPLGDFGAPALPMAVPGAHGPLAGLYPAFP GRAIKSEYPEP YASPPQPGLPYGYPEPFSGGPNVPELILQLLQLEPDEDQV RARILGCLQE PTKSRPDQPAAFGLLCRMADQTFISVDWARRCMVFKE EVADQMTLLQN CWSELLVFDHYRQVQHGKEGSILLVTGQEVELTTVATQA GSLHSLVLR AQELVLQLLALQLDRQEFVCLKFIILFSLDLKFLNNHILVKD AQEKANAA LLDYTLCHYPHCGDKFQQLLLCLVEVRALSMQAKEYLYHK HLGNEMPRNNLLIEMLQAKQT
Predicted molecular weight	77 kDa including tags
Amino acids	1 to 461

Specifications

Our **Abpromise guarantee** covers the use of **ab114599** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA SDS-PAGE Western blot
Form	Liquid
Additional notes	This product was previously labelled as Steroidogenic Factor 1.

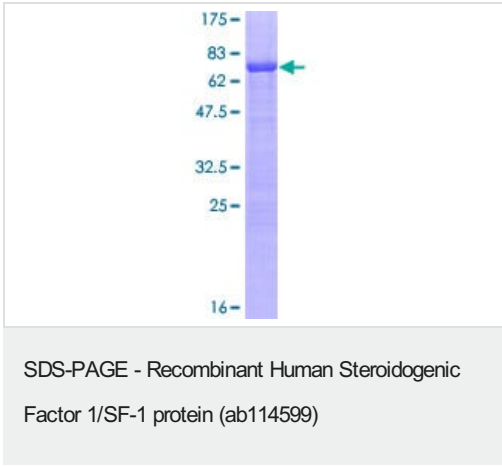
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
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General Info

Function	Transcriptional activator. Seems to be essential for sexual differentiation and formation of the primary steroidogenic tissues. Binds to the Ad4 site found in the promoter region of steroidogenic P450 genes such as CYP11A, CYP11B and CYP21B. Also regulates the AMH/Muellerian inhibiting substance gene as well as the AHCH and STAR genes. 5'-YCAAGGYC-3' and 5'-RRAGGTCA-3' are the consensus sequences for the recognition by NR5A1. The SFPQ-NONO-NR5A1 complex binds to the CYP17 promoter and regulates basal and cAMP-dependent transcriptional activity. Binds phosphatidylcholine (By similarity). Binds phospholipids with a phosphatidylinositol (PI) headgroup, in particular PI(3,4)P2 and PI(3,4,5)P3.
Involvement in disease	Defects in NR5A1 are a cause of 46,XY disorder of sex development (46,XY DSD) [MIM:612965]; also known as XY sex reversal with or without adrenal failure. A congenital condition in which development of chromosomal, gonadal, or anatomic sex is atypical. 46,XY DSD is a disorder of gonadal (testicular) development, which may be complete or partial. The complete form includes streak gonads, normal mullerian structures, and normal female external genitalia. The partial form includes ambiguous external genitalia and partial development of mullerian and wolffian structures. Defects in NR5A1 are a cause of adrenocortical insufficiency without ovarian defect (ACIWOD) [MIM:184757]. ACIWOD is characterized by severe 'slackness' muscular hypotonia. There is decreased sodium, increased potassium and elevated ACTH. Defects in NR5A1 are the cause of premature ovarian failure type 7 (POF7) [MIM:612964]. An ovarian disorder defined as the cessation of ovarian function under the age of 40 years. It is characterized by oligomenorrhea or amenorrhea, in the presence of elevated levels of serum gonadotropins and low estradiol.
Sequence similarities	Belongs to the nuclear hormone receptor family. NR5 subfamily. Contains 1 nuclear receptor DNA-binding domain.
Post-translational modifications	Acetylation stimulates the transcriptional activity.
Cellular localization	Nucleus.

Images



ab114599 analysed on a 12.5% SDS-PAGE gel stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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