abcam

Product datasheet

# Human Steroidogenic Factor 1 peptide ab74765

## 製品の概要

**製品名** Human Steroidogenic Factor 1 peptide

## 製品の詳細

**由来** Synthetic

**アミノ酸配列**

**生物種** Human

## 特性

Our Abpromise guarantee covers the use of **ab74765** in the following tested applications.

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

**精製度** 70 - 90% by HPLC.

**製品の状態** Liquid

**備考** *- First try to dissolve a small amount of peptide in either water or buffer. The more charged residues on a peptide, the more soluble it is in aqueous solutions.*
*- If the peptide doesn't dissolve try an organic solvent e.g. DMSO, then dilute using water or buffer.*
*- Consider that any solvent used must be compatible with your assay. If a peptide does not dissolve and you need to recover it, lyophilise to remove the solvent.*
*- Gentle warming and sonication can effectively aid peptide solubilisation. If the solution is cloudy or has gelled the peptide may be in suspension rather than solubilised.*
*- Peptides containing cysteine are easily oxidised, so should be prepared in solution just prior to use.*

## 前処理および保存

**保存方法および安定性** Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Information available upon request.

## 関連情報

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| **機能** | 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 avtivity. Binds phosphatidylcholine (By similarity). Binds phospholipids with a phosphatidylinositol (PI) headgroup, in particular PI(3,4)P2 and PI(3,4,5)P3. |
| **関連疾患** | 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 antomic 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.<br>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.<br>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. |
| **配列類似性** | Belongs to the nuclear hormone receptor family. NR5 subfamily.<br>Contains 1 nuclear receptor DNA-binding domain. |
| **翻訳後修飾** | Acetylation stimulates the transcriptional activity. |
| **細胞内局在** | Nucleus. |



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