NR5A1 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	NR5A1, Blocking Peptide
Full Product Name	NR5A1 Peptide - middle region
Product Gene Name	NR5A1 blocking peptide
Product Synonym Gene Name	AD4BP; ELP; FTZ1; FTZF1; SF-1; SF1; POF7; SPGF8; SRXY3
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	NR5A1 peptide (MBS3232791) is used for blocking the activity of NR5A1 antibody (MBS3207825)
Molecular Weight	52kDa
OMIM	184757
Product Categories/Family for NR5A1 blocking peptide	Peptide
Applications Tested/Suitable for NR5A1 blocking peptide	Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for NR5A1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-NR5A1 antibody made Target Description: NR5A1 is an important regulator of steroidogeneisis which is present in human skin and its appendages. It plays a role in regulating p450scc expression with TReP-132 and CBP/p300. The protein encoded by this gene is a transcriptional activator involved in sex determination. The encoded protein binds DNA as a monomer. Defects in this gene are a cause of XY sex reversal with or without adrenal failure as well as adrenocortical insufficiency without ovarian defect. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.
Other Notes	Small volumes of NR5A1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NR5A1 purchase	MBS3232791 is a blocking peptide targeting NR5A1. Also known as NR5A1 Peptide - middle region.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NR5A1. It may not necessarily be applicable to this product.

NCBI GI #	20070193
NCBI GeneID	2516
NCBI Accession #	NP_004950
UniProt Primary Accession #	Q13285
UniProt Related Accession #	Q13285
GenBank Nucleotide #	NM_004959
NCBI Official Full Name	steroidogenic factor 1
NCBI Official Synonym Full Names	nuclear receptor subfamily 5 group A member 1

NCBI Official Symbol	NR5A1
NCBI Official Synonym Symbols	ELP; SF1; FTZ1; POF7; SF-1; AD4BP; FTZF1; SPGF8; SRXX4; SRXY3; hSF-1
UniProt Protein Name	Steroidogenic factor 1
UniProt Synonym Protein Names	Adrenal 4-binding protein; Fushi tarazu factor homolog 1; Nuclear receptor subfamily 5 group A member 1; Steroid hormone receptor Ad4BP
Protein Family	Steroidogenic factor
UniProt Gene Name	NR5A1
UniProt Synonym Gene Names	AD4BP; FTZF1; SF1; SF-1; STF-1
UniProt Entry Name	STF1_HUMAN
NCBI Protein Information	steroidogenic factor 1
NCBI Summary for NR5A1	The protein encoded by this gene is a transcriptional activator involved in sex determination. The encoded protein binds DNA as a monomer. Defects in this gene are a cause of XY sex reversal with or without adrenal failure as well as adrenocortical insufficiency without ovarian defect. [provided by RefSeq, Jul 2008]
UniProt Comments for NR5A1	STF-1: a nuclear hormone receptor of the NR5 subfamily. Essential for sexual differentiation and formation of the primary steroidogenic tissues. Binds to the Ad4 site found in the promoter region of steroidogenic P-450 genes such as CYP11A, CYP11B and CYP21B. Also regulates the Muellerian inhibiting substance (AMH) gene as well as the AHCH and STAR genes. Protein type: Nuclear receptor Chromosomal Location of Human Ortholog: 9q33 Cellular Component: nucleoplasm; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; protein binding; ligand-dependent nuclear receptor activity; enzyme binding; DNA binding; zinc ion binding; sequence-specific DNA binding; transcription coactivator activity; double-stranded DNA binding; steroid hormone receptor activity; phospholipid binding; chromatin binding Biological Process: transcription initiation from RNA polymerase II promoter; tissue development; intracellular receptor-mediated signaling pathway; adrenal gland development; primary sex determination; male gonad development; multicellular organismal aging; regulation of steroid biosynthetic process; cell-cell signaling; luteinization; hormone metabolic process; gene expression; positive regulation of transcription from RNA polymerase II promoter; steroid hormone mediated signaling; maintenance of protein localization in nucleus; cell differentiation Disease: Premature Ovarian Failure 7; 46,xy Sex Reversal 3; Spermatogenic Failure 8
Research Articles on NR5A1	**1.** The findings stress the importance of G35 residue for adrenal development. The current observation also suggests that some patients with SF1 deficiency may present with transient adrenal failure.
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