

Recombinant Human AVP protein, GST-tagged

Cat. No. AVP-1043H Lot. No. (See product label)

SPECIFICATION

Product Overview Human AVP partial ORF (NP_000481.2, 20 a.a. - 124 a.a.) recombinant protein with GST tag at N-terminal.

Species Human

ProteinLength 20-124 a.a.

Description

This gene encodes a member of the vasopressin/oxytocin family and preproprotein that is proteolytically processed to generate multiple protein products. These products include the neuropeptide hormone arginine vasopressin, and two other peptides, neurophysin 2 and copeptin. Arginine vasopressin is a posterior pituitary hormone that is synthesized in the supraoptic nucleus and paraventricular nucleus of the hypothalamus. Along with its carrier protein, neurophysin 2, it is packaged into neurosecretory vesicles and transported axonally to the nerve endings in the neurohypophysis where it is either stored or secreted into the bloodstream. The precursor is thought to be activated while it is being transported along the axon to the posterior pituitary. Arginine vasopressin acts as a growth factor by enhancing pH regulation through acid-base transport systems. It has a direct antidiuretic action on the kidney, and also causes vasoconstriction of the peripheral vessels. This hormone can contract smooth muscle during parturition and lactation. It is also involved in cognition, tolerance, adaptation and complex sexual and maternal behaviour, as well as in the regulation of water excretion and cardiovascular functions. Mutations in this gene cause autosomal dominant neurohypophyseal diabetes insipidus (ADNDI). This gene is present in a gene cluster with the related gene oxytocin on chromosome 20.

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[provided by RefSeq, Nov 2015]

Molecular Mass	37.18 kDa
AA Sequence	CYFQNCPRGGKRAMSDLELRQCLPCGPGGKGRFCFGPSICCADELGCFVGTAEALR CQEENYLPSPCQSGQKACGSGGRCAAFGVCCNDESCVTEPECREGFHRRA
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	AVP arginine vasopressin [Homo sapiens]
Official Symbol	AVP
Synonyms	AVP; arginine vasopressin; ARVP; vasopressin-neurophysin 2-copeptin; ADH; antidiuretic hormone; diabetes insipidus; neurohypophyseal; neurophysin II; vasopressin-neurophysin II-copeptin; VP; AVRP; AVP-NPII;
Gene ID	551
mRNA Refseq	NM_000490
Protein Refseq	NP_000481

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MIM	192340
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UniProt ID	P01185
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