

## AVPR1B Protein, Human (Cell-Free, His)

<b>Cat. No.:</b>	HY-P702221
<b>Synonyms:</b>	Vasopressin V1b receptor; AVPR V1b; AVPR V3; Antidiuretic hormone receptor 1b; Vasopressin V3 receptor
<b>Species:</b>	Human
<b>Source:</b>	E. coli Cell-free
<b>Accession:</b>	P47901 (M1-F424)
<b>Gene ID:</b>	553
<b>Molecular Weight:</b>	53.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> M D S G P L W D A N   P T P R G T L S A P   N A T T P W L G R D   E E L A K V E I G V L A T V L V L A T G   G N L A V L L T L G   Q L G R K R S R M H   L F V L H L A L T D L A V A L F Q V L P   Q L L W D I T Y R F   Q G P D L L C R A V   K Y L Q V L S M F A S T Y M L L A M T L   D R Y L A V C H P L   R S L Q Q P G Q S T   Y L L I A A P W L L A A I F S L P Q V F   I F S L R E V I Q G   S G V L D C W A D F   G F P W G P R A Y L T W T T L A I F V L   P V T M L T A C Y S   L I C H E I C K N L   K V K T Q A W R V G G G G W R T W D R P   S P S T L A A T T R   G L P S R V S S I N   T I S R A K I R T V K M T F V I V L A Y   I A C W A P F F S V   Q M W S V W D K N A   P D E D S T N V A F T I S M L L G N L N   S C C N P W I Y M G   F N S H L L P R P L   R H L A C C G G P Q P R M R R R L S D G   S L S S R H T T L L   T R S S C P A T L S   L S L S L T L S G R P R P E E S P R D L   E L A D G E G T A E   T I I F           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

The AVPR1B Protein acts as a receptor for arginine vasopressin, and its activity is mediated by G proteins, leading to the activation of a phosphatidyl-inositol-calcium second messenger system. Additionally, during SARS coronavirus-2 (SARS-CoV-2) infection, AVPR1B may recognize and internalize a complex formed by AVP/Arg-vasopressin, the SARS-CoV-2 spike protein, and secreted ACE2 through a dynamin 2-dependent endocytosis mechanism. This interaction highlights a potential role for AVPR1B in the cellular response to SARS-CoV-2 infection.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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