

## VPAC2 Protein, Human, Recombinant (mFc)

### General Information

Synonyms:	VPCAP2R;PACAP-R-3;VIP-R-2;vasoactive intestinal peptide receptor 2;VPAC2;PACAP-R3;VPAC2R;C16DUPq36.3;DUP7q36.3
Protein Construction:	Glu24-Val126
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P41587-1
Molecular Weight:	37.35 kDa (Predicted); 45-60 kDa (Due to glycosylation)

### QC Testing

Biological Activity:	Activity testing is not tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Effects of vasoactive intestinal peptide (VIP) on T cell migration are mediated by structurally distinct types I (VIPR1) and II (VIPR2) G protein-associated receptors. The two receptor types were proposed to transduce opposite effects on human T cells, since cytokine-induced chemotaxis of VIPR1-bearing HuT 78 human T cells, in contrast to T cells that express VIPR2, was inhibited by VIP.

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