

**GJA1 Blocking Peptide (C-Term)**

Synthetic peptide

Catalog # BP21800b

**Specification**

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**GJA1 Blocking Peptide (C-Term) - Product Information**

Primary Accession

[P17302](#)**GJA1 Blocking Peptide (C-Term) - Additional Information**

Gene ID 2697

**Other Names**

Gap junction alpha-1 protein, Connexin-43, Cx43, Gap junction 43 kDa heart protein, GJA1, GJAL

**Target/Specificity**

The synthetic peptide sequence is selected from aa 336-346 of HUMAN GJA1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GJA1 Blocking Peptide (C-Term) - Protein Information**

Name GJA1

Synonyms GJAL

**Function**

Gap junction protein that acts as a regulator of bladder capacity. A gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell. May play a critical role in the physiology of hearing by participating in the recycling of potassium to the cochlear endolymph. Negative regulator of bladder functional capacity: acts by enhancing intercellular electrical and chemical transmission, thus sensitizing bladder muscles to cholinergic neural stimuli and causing them to contract (By similarity). May play a role in cell growth inhibition through the regulation of NOV expression and localization. Plays an essential role in gap junction communication in the ventricles (By similarity).

**Cellular Location**

Cell membrane; Multi-pass membrane protein. Cell junction, gap junction. Endoplasmic reticulum {ECO:0000250|UniProtKB:P23242}. Note=Localizes at the intercalated disk (ICD) in

cardiomyocytes and the proper localization at ICD is dependent on TMEM65.  
{ECO:0000250|UniProtKB:P23242}

**Tissue Location**

Expressed in the heart and fetal cochlea.

**GJA1 Blocking Peptide (C-Term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**GJA1 Blocking Peptide (C-Term) - Images****GJA1 Blocking Peptide (C-Term) - Background**

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**GJA1 Blocking Peptide (C-Term) - References**

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