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GJA1 Blocking Peptide (C-Term)

Synthetic peptide
Catalog # BP21800b

Specification

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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Haefliger J.-A.,et al.Eur. Heart J. 20:1843-1843(1999).
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