ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

Connexin Mimetic Peptides

☐ Cat. # Cx3211-P-1	Human, mouse, rat connexin 32 hemi-channel-blocking peptide	**SIZE**: 1 mg
☐ Cat. # Cx3211-P-5	Human, mouse, rat connexin 32 hemi-channel-blocking peptide	**SIZE**: 5 mg
☐ Cat. # Cx3212-PS-1	Human, mouse, rat connexin 32 hemi-channel-scrambled peptide	**SIZE**: 1 mg
☐ Cat. # Cx3212-PS-5	Human, mouse, rat connexin 32 hemi-channel-scrambled peptide	**SIZE**: 5 mg

Gap junctions contain channels that allow the passage of ions and small molecules between adjacent cells. This intercellular communication has been implicated in the coordination of cellular responses to intracellular signaling molecules.

Connexins are a family of integral membrane proteins that oligomerize to form intercellular channels that are clustered at gap junctions. Connexins share a common transmembrane (TM) topology. Each connexin is thought to contain 4 TM domains, with two extracellular and three cytoplasmic regions.

Connexin-mimetic peptides, i.e. peptides that are identical with a short amino acid sequence on the Cx subunit have recently emerged as tools to block Connexin hemi-channels (CxHcs) with little or no immediate effects on gap junctions.

^{32}Cx-GAP corresponds to amino acid sequence on the first extracellular loop of Cx32. This peptide sequence has been shown to inhibit Cx32 gap junctions in hepatocytes (1).

Source of Peptide

Cat #s	• Cx3211-P-1 • Cx3211-P-5
Sequence	I-C-N-T-L-Q-P-G-C-N-S-V
Identity	Human/Mouse/Rat ^{32}CxHc **Control Peptide**
Location	52 - 63 aa
Purity	>90%; HPLC Purified
Mol. Wt.	1248.45
Form	Lyophilized Powder
Solubility	Soluble in DMF

Cat #	• Cx3212-PS-1 • Cx3212-PS-5
Sequence	I-C-Q-V-G-N-N-P-T-S-C-L
Identity	Human/Mouse/Rat ^{32}CxHc **Scrambled Peptide**
Location	52 - 63 aa
Purity	>90%; HPLC Purified
Mol. Wt.	1248.45
Form	Lyophilized Powder
Solubility	Soluble in DMF

Storage

Short-term: unopened, undiluted liquid vials for less than a week at 4^{o}C.

Long-term: Store at –20^{0}C or below in suitable aliquots after reconstitution. Do not freeze and thaw or store working, diluted solutions.

Stability: 6-12 months at –20^{o}C or below.

Shipping: 4^{o}C for solutions and room temp for powder.

Recommended Usage

General References:

1) Eugenin E A,, et al., (1998) Am J Physiol Gastrointest Liver Physiol 274: G1109-G1116.

*This product is for In vitro research use only.

Related material available from ADI

Control and scrambled Peptides to mouse, rat and human Gap26, Gap27 and Gap24.

Cx3211-12-P-1-5 161111SV

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