Gap Junction Protein

Gap junction channels are essential in normal heart function and they assist in the mediated spread of electrical impulses that stimulate synchronized contraction (via an electrical syncytium) of cardiac tissues.

Gap junction (GJ) proteins play an important role in direct communication between cells of many tissue types. GJs are specialised intercellular membrane-spanning domains that allow the passage of small molecules including second messenger (e.g. c-AMP, inositol triphosphate) or ionic signals from one cell to another. GJ proteins and their long evolutionary history have permitted adaptation of gap junction intercellular communication (GJIC) with several important functions and multiple regulatory processes. Formation of GJIC is an essential mechanism in coordinating growth and development and tissue compartmentalization during embryonic development.
## Gap Junction Protein Inhibitors & Modulators

### AT-1002
- **Cat. No.:** HY-114426
- AT-1002, a 6-mer synthetic peptide, is a tight junction regulator and absorption enhancer.
- **Purity:** >98%
- **Clinical Data:** No Development Reported
- **Size:** 250 mg, 500 mg

### AT-1002 TFA
- **Cat. No.:** HY-114426A
- AT-1002 TFA, a 6-mer synthetic peptide, is a tight junction regulator and absorption enhancer.
- **Purity:** 99.84%
- **Clinical Data:** No Development Reported
- **Size:** 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

### Danegaptide
- **Cat. No.:** HY-10913
- Danegaptide (GAP-134, ZP 1609), a small modified dipeptide, has been identified as a potent and selective second generation gap junction modifier with oral bioavailability.
- **Purity:** >98%
- **Clinical Data:** Phase 2
- **Size:** 1 mg, 5 mg

### Danegaptide Hydrochloride
- **Cat. No.:** HY-10913A
- Danegaptide Hydrochloride (GAP-134 Hydrochloride) is a selective modifier of the gap junction protein.
- **Purity:** 99.75%
- **Clinical Data:** Phase 2
- **Size:** 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

### Gap 26
- **Cat. No.:** HY-P1082
- Gap 26 is a connexin mimetic peptide corresponding to the residues 63-75 of connexin 43, which is a gap junction blocker.
- **Purity:** 99.30%
- **Clinical Data:** No Development Reported
- **Size:** 1 mg, 5 mg, 10 mg

### Gap 27
- **Cat. No.:** HY-P0139
- Gap 27, connexin43 mimetic peptide, is a gap junction inhibitor.
- **Purity:** 98.34%
- **Clinical Data:** No Development Reported
- **Size:** 1 mg, 5 mg

### Gap19
- **Cat. No.:** HY-P1136
- Gap19, a peptide derived from nine amino acids of the Cx43 cytoplasmic loop (CL), is a potent and selective connexin 43 (Cx43) hemichannel blocker. Gap19 inhibits hemichannels caused by preventing intramolecular interactions of the C-terminus (CT) with the CL.
- **Purity:** >98%
- **Clinical Data:** No Development Reported
- **Size:** 1 mg, 5 mg

### Gap19 TFA
- **Cat. No.:** HY-P1136A
- Gap19 TFA, a peptide derived from nine amino acids of the Cx43 cytoplasmic loop (CL), is a potent and selective connexin 43 (Cx43) hemichannel blocker. Gap19 TFA inhibits hemichannels caused by preventing intramolecular interactions of the C-terminus (CT) with the CL.
- **Purity:** >98%
- **Clinical Data:** No Development Reported
- **Size:** 1 mg, 5 mg

### Larazotide acetate
- **Cat. No.:** HY-106268A
- Larazotide acetate is a synthetic peptide that functions as a tight junction regulator and reverses leaky junctions to their normally closed state.
- **Purity:** 99.68%
- **Clinical Data:** Phase 2
- **Size:** 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 25 mg

### Meclofenamate sodium
- **Cat. No.:** HY-B1320
- Meclofenamic acid sodium is a nonsteroidal anti-inflammatory drug (NSAID) approved for use in arthritis (osteo and rheumatoid), analgesia (mild to moderate pain), dysmenorrhea, and heavy menstrual blood loss (menorrhagia).
- **Purity:** 98.62%
- **Clinical Data:** No Development Reported
- **Size:** 10 mM × 1 mL, 50 mg, 100 mg, 200 mg
### Meclofenamic acid

Cat. No.: HY-117275

Meclofenamic acid is a nonsteroidal anti-inflammatory drug (NSAID) approved for use in arthritis (osteo and rheumatoid), analgesia (mild to moderate pain), dysmenorrhea, and heavy menstrual blood loss (menorrhagia).

- **Purity:** >98%
- **Clinical Data:** No Development Reported
- **Size:** 1 mg, 5 mg

### Tonabersat (SB-220453)

Cat. No.: HY-15204

Tonabersat is a gap-junction modulator.

- **Purity:** 99.68%
- **Clinical Data:** Phase 2
- **Size:** 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

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