Neuropeptide Y receptors are a class of G-protein coupled receptors which are activated by the closely related peptide hormones neuropeptide Y, peptide YY and pancreatic polypeptide. These receptors are involved in the control of a diverse set of behavioral processes including appetite, circadian rhythm, and anxiety. Neuropeptide Y (NPY) is a potent orexigenic neuropeptide, and antagonism of NPY Y1 and NPY Y5 receptors (NPYxR) is considered a potentially important anti-obesity drug target. Neuropeptide Y (NPY) is widely distributed in the human body and contributes to a vast number of physiological processes. A number of other uses for modulators of NPY receptors have been implied in a range of diseases.
### Bioactivity

**BIIE-0246**

- **Bioactivity:** BIIE-0246 is a potent and highly selective non-peptide neuropeptide Y (NPY) \( Y_2 \) receptor antagonist, with an \( IC_{50} \) of 15±3 nM.
- **Purity:** >98%
- **Clinical Data:** No Development Reported
- **Size:** 250 mg, 500 mg

**FR252384**

- **Bioactivity:** FR252384 is a neuropeptide Y5 receptor antagonist, with an \( IC_{50} \) of 2.3 nM.
- **Purity:** >98%
- **Clinical Data:** No Development Reported
- **Size:** 1 mg, 5 mg, 10 mg, 20 mg

**Galinin (1-16), mouse, porcine, rat**

- **Bioactivity:** Galinin (1-16), mouse, porcine, rat is an agonist of the hippocampal galanin receptor, with a \( K_d \) of 3 nM.
- **Purity:** >98%
- **Clinical Data:** No Development Reported
- **Size:** 500u g, 1 mg, 5 mg

**Galinin (1-30), human**

- **Bioactivity:** Galinin (1-30), human is a 30-amino acid neuropeptide, and acts as an agonist of \( GalR_1 \) and \( GalR_2 \) receptors, with \( K_{i/sub} \)s of both 1 nM.
- **Purity:** >98%
- **Clinical Data:** No Development Reported
- **Size:** 500u g, 1 mg, 5 mg

**Galantide**

- **Bioactivity:** Galantide is a reversible and non-specific galanin receptor antagonist.
- **Purity:** >98%
- **Clinical Data:** No Development Reported
- **Size:** 500u g, 1 mg, 5 mg

**HT-2157**

- **Bioactivity:** HT-2157 (SNAP 37889) is a selective, high-affinity, competitive antagonist of galanin-3 receptor (\( Gal_3 \)).
- **Purity:** 98.0%
- **Clinical Data:** Phase 2
- **Size:** 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg

**JNJ-31020028**

- **Bioactivity:** JNJ-31020028 is a selective brain penetrant antagonist of neuropeptide Y2 receptor with high affinity (pIC50=8.07, human; pIC50=8.22 rat); >100-fold selective versus human \( Y_1/Y_4/Y_5 \) receptors.
- **Purity:** 96.74%
- **Clinical Data:** No Development Reported
- **Size:** 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

**M40**

- **Bioactivity:** M40 is a potent, non-selective galanin receptor antagonist.
- **Purity:** 98.25%
- **Clinical Data:** No Development Reported
- **Size:** 500u g, 1 mg, 5 mg

**MK-0557**

- **Bioactivity:** MK-0557 is a highly selective, orally available neuropeptide Y5 receptor antagonist with a \( K_{i} \) of 1.6 nM.
- **Purity:** 98.28%
- **Clinical Data:** Phase 3
- **Size:** 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg

**Neuropeptide Y (13-36), amide, human**

- **Bioactivity:** Neuropeptide Y (13-36), amide, human is a neuropeptide Y receptor agonist.
- **Purity:** >98%
- **Clinical Data:** No Development Reported
- **Size:** 500u g, 1 mg, 5 mg
<table>
<thead>
<tr>
<th><strong>Neuropeptide Y (29-64), amide, human</strong></th>
<th><strong>Neuropeptide Y(29-64)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong> Neuropeptide Y (29-64), amide, human is a biologically active 36-amino acid peptide.</td>
<td><strong>Bioactivity:</strong> Neuropeptide Y(29-64) is a 36 amino acid peptide, a fragment of Neuropeptide Y.</td>
</tr>
<tr>
<td>Purity: &gt; 98%</td>
<td>Purity: &gt; 98%</td>
</tr>
<tr>
<td>Clinical Data: No Development Reported</td>
<td>Clinical Data: No Development Reported</td>
</tr>
<tr>
<td>Size: 1 mg, 5 mg</td>
<td>Size: 1 mg, 5 mg</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th><strong>Pancreatic Polypeptide, bovine</strong></th>
<th><strong>Pancreatic Polypeptide, human</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong> Pancreatic Polypeptide, bovine, a 36-amino acid, straight chain polypeptide derived primarily from the pancreas, inhibits secretin- and cholecystokinin-stimulated pancreatic secretion; Pancreatic Polypeptide, bovine acts as an agonist of NPY receptor, with high affinity at NPYR4.</td>
<td><strong>Bioactivity:</strong> Pancreatic Polypeptide, human is a C-terminally amidated 36 amino acid peptide, which acts as a neuropeptide Y (NPY) &lt; b&gt;Y4/ Y5 receptor agonist.</td>
</tr>
<tr>
<td>Purity: &gt; 98%</td>
<td>Purity: &gt; 98%</td>
</tr>
<tr>
<td>Clinical Data: No Development Reported</td>
<td>Clinical Data: No Development Reported</td>
</tr>
<tr>
<td>Size:</td>
<td>Size: 500µg, 1 mg, 5 mg</td>
</tr>
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<thead>
<tr>
<th><strong>Pancreatic Polypeptide, rat</strong></th>
<th><strong>Peptide YY (PYY), human</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong> Pancreatic Polypeptide, rat is an agonist of NPY receptor, with high affinity at NPYR4.</td>
<td><strong>Bioactivity:</strong> Peptide YY (PYY) is a gut hormone that regulates appetite and inhibits pancreatic secretion. Peptide YY (PYY) can mediate its effects through the Neuropeptide Y receptors.</td>
</tr>
<tr>
<td>Purity: &gt; 98%</td>
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</tr>
<tr>
<td>Clinical Data: No Development Reported</td>
<td>Clinical Data: No Development Reported</td>
</tr>
<tr>
<td>Size: 500µg, 1 mg, 5 mg</td>
<td>Size: 500µg, 1 mg, 5 mg</td>
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<thead>
<tr>
<th><strong>RF9</strong></th>
<th><strong>Velneperit</strong></th>
</tr>
</thead>
</table>
| **Bioactivity:** RF9 is a potent and selective Neuropeptide FF receptor ant agonist, with 
K<sub>e</sub> of 58±5 and 75±9 nM for hNP FF1R and hNPFF2R, respectively. | **Bioactivity:** Velneperit (S-2367) is a novel neuropeptide Y (NPY) Y5 receptor antagonist. |
| Purity: 98.24% | Purity: 99.65% |
| Clinical Data: No Development Reported | Clinical Data: Phase 2 |
| Size: 10mM x 1mL in DMSO, 1 mg, 5 mg | Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg |