Insulin Receptor

Insulin receptor (IR) is a transmembrane receptor that is activated by insulin, IGF-I, IGF-II and belongs to the large class of tyrosine kinase receptors. Metabolically, the insulin receptor plays a key role in the regulation of glucose homeostasis, a functional process that under degenerate conditions may result in a range of clinical manifestations including diabetes and cancer. Biochemically, the insulin receptor is encoded by a single gene INSR, from which alternate splicing during transcription results in either IR-A or IR-B isoforms. Downstream post-translational events of either isoform result in the formation of a proteolytically cleaved α and β subunit, which upon combination are ultimately capable of homo or hetero-dimerisation to produce the ≈320 kDa disulfide-linked transmembrane insulin receptor.
## Insulin Receptor Inhibitors & Modulators

### AGL-2263

**Cat. No.** HY-112720

**Bioactivity:** AGL-2263 is an insulin receptor (IR) blocker.

**Purity:** 95.80%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 25 mg, 50 mg

### BMS-536924

**Cat. No.** HY-10262

**Bioactivity:** BMS-536924 is an ATP-competitive IGF-1R/IR inhibitor with IC50 of 100 nM/73 nM.

**Purity:** 98.73%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg

### BMS-754807

**Cat. No.** HY-10200

**Bioactivity:** BMS-754807 is a potent and reversible inhibitor of the insulin-like growth factor 1 receptor (IGF-1R)/insulin receptor family kinases (IR) with IC50 of 1.8 and 1.7 nM, respectively and Ki of <2 nM for both, and also shows potent activit...  

**Purity:** 99.18%

**Clinical Data:** Phase 2

**Size:** 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

### Ceritinib

**(LDK378)**

**Cat. No.** HY-15656

**Bioactivity:** Ceritinib (LDK378) is a potent and specific ALK inhibitor with an IC50 of 0.2 nM.

**Purity:** 99.95%

**Clinical Data:** Launched

**Size:** 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg, 500 mg, 1 g, 2 g, 5 g, 10 g

### Ceritinib dihydrochloride

**(LDK378 (dihydrochloride))**

**Cat. No.** HY-15656A

**Bioactivity:** Ceritinib dihydrochloride (LDK378 dihydrochloride) is potent inhibitor against ALK with IC50 of 0.2 nM, shows 40- and 35-fold selectivity against IGF-1R and InsR, respectively.

**Purity:** 99.86%

**Clinical Data:** Launched

**Size:** 10mM x 1mL in Water, 5 mg, 10 mg, 50 mg, 100 mg

### GSK1838705A

**Cat. No.** HY-13020

**Bioactivity:** GSK1838705A is a potent and reversible IGF-1R and the insulin receptor inhibitor with IC50 of 2.0 and 1.6 nM, respectively. It also inhibits ALK with an IC50 of 0.5 nM.

**Purity:** 98.99%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

### Insulin levels modulator

**Cat. No.** HY-112819

**Bioactivity:** Insulin levels modulator could be used to treat diabetes.

**Purity:** >98%

**Clinical Data:** No Development Reported

**Size:** 250 mg, 500 mg

### Insulin(cattle)

**(Insulin from bovine pancreas)**

**Cat. No.** HY-P1156

**Bioactivity:** Insulin cattle is a kind of polypeptide hormone that regulates glucose metabolism in pancreatic islet B-cells.

**Purity:** 98.60%

**Clinical Data:** No Development Reported

**Size:** 10 mg, 25 mg, 50 mg, 100 mg

### Insulin(human)

**Cat. No.** HY-P0035

**Bioactivity:** Argireline prevents formation of skin lines and wrinkles, inhibiting neurotransmitter release at the neuromuscular junction.

**Purity:** 96.90%

**Clinical Data:** Launched

**Size:** 10 mg, 25 mg, 50 mg, 100 mg

### Kaempferitrin

**(Lespedin; Lespenephryl)**

**Cat. No.** HY-N0628

**Bioactivity:** Kaempferitrin is a natural flavonoid, possesses antinociceptive, anti-inflammatory, anti-diabetic, antitumoral and chemopreventive effects, and activates insulin signaling pathway.

**Purity:** >98%

**Clinical Data:** No Development Reported

**Size:** 1 mg, 5 mg, 10 mg

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<table>
<thead>
<tr>
<th><strong>KU14R</strong></th>
<th><strong>Cat. No.: HY-15481</strong></th>
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<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>KU14R is a new I(3)-R antagonist, which selectively blocks the insulin secretory response to imidazolines.</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>$&gt;98%$</td>
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<tr>
<td><strong>Clinical Data:</strong></td>
<td>No Development Reported</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>5 mg, 10 mg</td>
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<thead>
<tr>
<th><strong>MSDC 0160</strong></th>
<th><strong>Cat. No.: HY-100550</strong></th>
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<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>MSDC 0160 act as an insulin sensitizer and a modulator of mitochondrial pyruvate carrier (MPC), a key controller of cellular metabolism that influences mTOR (mammalian target of rapamycin) activation. In vitro: MSDC-0160 acts as insulin sensitizers without activating PPARγ. MSDC-0160 (10 μM)...</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>98.0%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>Phase 2</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>10mM x 1mL in DMSO, 2 mg, 5 mg, 10 mg, 50 mg, 100 mg</td>
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<thead>
<tr>
<th><strong>Linsitinib</strong></th>
<th><strong>Cat. No.: HY-10191</strong></th>
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<tr>
<td><strong>Bioactivity:</strong></td>
<td>Losmapimod is a dual inhibitor of the IGF-1 receptor and insulin receptor with $IC_{50}$ of 35 and 75 nM, respectively.</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>99.90%</td>
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<tr>
<td><strong>Clinical Data:</strong></td>
<td>Phase 3</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg</td>
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<tr>
<th><strong>NVP-AEW541</strong></th>
<th><strong>Cat. No.: HY-50866</strong></th>
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<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>NVP-AEW541 is a potent inhibitor of IGF-1R with $IC_{50}$ of 0.15 μM, also inhibits InsR with $IC_{50}$ of 0.14 μM.</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>98.76%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>No Development Reported</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>10mM x 1mL in DMSO, 2 mg, 5 mg, 10 mg, 50 mg, 100 mg</td>
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