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

**Ceritinib**

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

**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

**Kaempferitrin**

*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

**Insulin Receptor Inhibitors & Modulators**

**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 Kd of < 2 nM for both, and also shows potent activit...

**Purity:**
99.18%

**Clinical Data:**
Phase 2

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

**GSK1838705A**

*Cat. No.: HY-13020*

**Bioactivity:**
GSK1838705A is a potent and reversible IGF-IR 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:**
10 mM x 1 mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

**Insulin(cattle)**

*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

**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

**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
**KU14R**

**Bioactivity:** KU14R is a new I(3)-R antagonist, which selectively blocks the insulin secretory response to imidazolines.

**Purity:** > 98%

**Clinical Data:** No Development Reported

**Size:** 5 mg, 10 mg

**Cat. No.:** HY-15481

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**Linsitinib**

**Bioactivity:** Linsitinib is a dual inhibitor of the IGF-1 receptor and insulin receptor with IC\(_{50}\) of 35 and 75 nM, respectively.

**Purity:** 99.90%

**Clinical Data:** Phase 3

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

**Cat. No.:** HY-10191

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**MSDC 0160**

**(Mitoglitazone; CAY10415)**

**Bioactivity:** 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).

**Purity:** 98.0%

**Clinical Data:** Phase 2

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

**Cat. No.:** HY-100550

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**NT157**

**(Tyrphostin NT157)**

**Bioactivity:** NT157 is a selective inhibitor of IRS-1/2, IC\(_{50}\) values at sub-micromolar doses (ranging from 0.3 to 0.8 μM).

**Purity:** 99.19%

**Clinical Data:** No Development Reported

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

**Cat. No.:** HY-100037

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**NVP-AEW541**

**(AEW541)**

**Bioactivity:** 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.

**Purity:** 98.76%

**Clinical Data:** No Development Reported

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

**Cat. No.:** HY-50866

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