β-catenin

Beta catenin

β-catenin is a dual function protein, regulating the coordination of cell–cell adhesion and gene transcription. In humans, the CTNNB1 protein is encoded by the CTNNB1 gene. β-catenin is a subunit of the cadherin protein complex and acts as an intracellular signal transducer in the Wnt signaling pathway. It is a member of the catenin protein family and homologous to γ-catenin. Mutations and overexpression of β-catenin are associated with many cancers, including hepatocellular carcinoma, colorectal carcinoma, lung cancer, malignant breast tumors, ovarian and endometrial cancer. β-catenin is regulated and destroyed by the beta-catenin destruction complex, and in particular by the adenomatous polyposis coli (APC) protein, encoded by the tumour-suppressing APC gene. Therefore genetic mutation of the APC gene is also strongly linked to cancers, and in particular colorectal cancer resulting from familial adenomatous polyposis (FAP).
<table>
<thead>
<tr>
<th>Compound</th>
<th>Cat. No.</th>
<th>Formula</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(E)-Ferulic acid</td>
<td>HY-N0060B</td>
<td><img src="image" alt="Ferulic acid" /></td>
<td>Isomer of Ferulic acid, abundant in plant cell walls. Purity: &gt;98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</td>
</tr>
<tr>
<td>Cardiogenol C hydrochloride</td>
<td>HY-12319A</td>
<td><img src="image" alt="Cardiogenol C hydrochloride" /></td>
<td>Cell-permeable pyrimidine compound. Purity: 96.22% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg</td>
</tr>
<tr>
<td>DK419</td>
<td>HY-112799</td>
<td><img src="image" alt="DK419" /></td>
<td>Potent and orally active signaling inhibitor. Purity: &gt;98% Clinical Data: No Development Reported Size: 100 mg, 250 mg, 500 mg</td>
</tr>
<tr>
<td>FH535</td>
<td>HY-15721</td>
<td><img src="image" alt="FH535" /></td>
<td>Inhibitor of Wnt/β-catenin, with anti-tumor activities. Purity: 99.93% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg</td>
</tr>
<tr>
<td>FzM1.8</td>
<td>HY-117163</td>
<td><img src="image" alt="FzM1.8" /></td>
<td>Allosteric agonist of FZD4, binds to FZD4 and activates the WNT/β-catenin pathway. Purity: &gt;98% Clinical Data: No Development Reported Size: 100 mg, 250 mg, 300 mg</td>
</tr>
<tr>
<td>ICG-001</td>
<td>HY-14428</td>
<td><img src="image" alt="ICG-001" /></td>
<td>Inhibits β-catenin/TCF transcription. Purity: 99.83% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</td>
</tr>
<tr>
<td>KY1220</td>
<td>HY-102028</td>
<td><img src="image" alt="KY1220" /></td>
<td>Destabilizes β-catenin and Ras via targeting the Wnt/β-catenin pathway. Purity: &gt;98.0% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 2 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</td>
</tr>
<tr>
<td>KYA1797K</td>
<td>HY-101090</td>
<td><img src="image" alt="KYA1797K" /></td>
<td>Potent and selective inhibitor of Wnt/β-catenin with an IC₅₀ of 0.75 µM. Purity: &gt;98.0% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</td>
</tr>
<tr>
<td>L-Quebrachitol</td>
<td>HY-N2375</td>
<td><img src="image" alt="L-Quebrachitol" /></td>
<td>Natural product isolated from many plants, promotes osteoblastogenesis. Purity: &gt;98% Clinical Data: No Development Reported Size: 1 mg, 5 mg</td>
</tr>
<tr>
<td>LF3</td>
<td>HY-101486</td>
<td><img src="image" alt="LF3" /></td>
<td>Antagonist of the β-Catenin/TCF4 interaction with antitumor activity. Purity: 98.49% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg</td>
</tr>
</tbody>
</table>
Nefopam hydrochloride (Fenazoxine hydrochloride) Cat. No.: HY-81057
Nefopam hydrochloride is a centrally-acting but non-opioid analgesic drug, for the relief of moderate to severe pain.

Purity: 99.06%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 50 mg

NRX-252262 Cat. No.: HY-111760
NRX-252262 is a potent enhancer of the interaction between β-Catenin, and its cognate E3 ligase, SCFβTrCP, induces mutant β-catenin degradation, with an EC_{50} of 3.8 nM.

Purity: >98%
Clinical Data: No Development Reported
Size: 250 mg, 500 mg

Pamidronic acid Cat. No.: HY-80012
Pamidronic acid is a drug used to treat a broad spectrum of bone absorption diseases.

Purity: >98.0%
Clinical Data: Launched
Size: 10 mM × 1 mL, 50 mg

PNU-74654 Cat. No.: HY-101130
PNU-74654 is an inhibitor of Wnt/β-catenin pathway with an IC_{50} of 129.8 μM in NCI-H295 cell.

Purity: 99.60%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg, 200 mg

Salinomycin (Prococaxin) Cat. No.: HY-15597
Salinomycin is an anticoccidial drug with potent anti-bacterial activity and an novel anticancer agent targeting human cancer stem cells.

Purity: >98.0%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

SKL2001 Cat. No.: HY-101085
SKL2001 is an agonist of the Wnt/β-catenin pathway, with anti-cancer activity.

Purity: 98.08%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg, 200 mg

Toxoflavin (Xanthothricin; Toxoflavine; PKF-118-310) Cat. No.: HY-100760
Toxoflavin is an antagonist of transcription factor 4 (TCF4)/β-catenin complex, also acts as an inhibitor of KDM4A, with antitumor activity.

Purity: >98%
Clinical Data: No Development Reported
Size: 100 mg, 250 mg, 500 mg

Triptonide (NSC 165677; PG 492) Cat. No.: HY-32736
Triptonide, extracted from Tripterygium wilfordii Hook, inhibited the proliferation of mouse splenocytes induced by suboptimal concentration of concanavalin A or lipopolysaccharide at concentrations of 0.02, 0.1, and 0.5 mg/ml.

Purity: 98.65%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg

WAY-262611 Cat. No.: HY-11035
WAY-262611 is a wingless β-Catenin agonist that increases bone formation rate with an EC_{50} of 0.63 μM in TCF-Luciferase assay.

Purity: 99.08%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 50 mg

WIKI4 Cat. No.: HY-16910
WIKI4 is an inhibitor of tankyrase and Wnt/β-catenin signaling. WIKI4 potently inhibits Wnt/β-catenin signaling and that its half-maximal response dose is 75 nM.

Purity: 99.77%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg
XAV-939

Cat. No.: HY-15147

XAV-939 is a tankyrase (TNKS) inhibitor and an indirect inhibitor of Wnt/β-catenin signaling, with IC₅₀s of 5 and 2 nM for TNKS1 and TNKS2, respectively.

Purity: 98.71%
Clinical Data: No Development Reported
Size: 10 mM x 1 mL, 5 mg, 10 mg, 50 mg, 100 mg, 200 mg