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Inhibitors, Agonists, Screening Libraries

G-quadruplex

G-quadruplexes (G-tetrads or G4-DNA) are nucleic acid sequences that are rich in guanine and are capable of forming a four-stranded structure. Four guanine bases can associate through Hoogsteen hydrogen bonding to form a square planar structure called a guanine tetrad, and two or more guanine tetrads can stack on top of each other to form a G-quadruplex. The quadruplex structure is further stabilized by the presence of a cation, especially potassium, which sits in a central channel between each pair of tetrads. They can be formed of DNA, RNA, LNA, and PNA, and may be intramolecular, bimolecular or tetramolecular. Depending on the direction of the strands or parts of a strand that form the tetrads, structures may be described as parallel or antiparallel.

G-quadruplex Inhibitors, Activators & Modulators

<p>360A</p> <p>Cat. No.: HY-15595</p>	<p>360A iodide (360 A iodide)</p> <p>Cat. No.: HY-15595A</p>
<p>360A is a selective stabilizer of G-quadruplex, and also inhibits telomerase activity with an IC_{50} of 300 nM for telomerase in TRAP-G4 assay.</p> <p>Purity: >98%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 1 mg, 5 mg</p>	<p>360A iodide is a selective stabilizer of G-quadruplex, and also inhibits telomerase activity with an IC_{50} of 300 nM for telomerase in TRAP-G4 assay.</p> <p>Purity: >98.0%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 5 mg, 10 mg, 50 mg, 100 mg</p>
<p>BMVC-8C30</p> <p>Cat. No.: HY-133234</p>	<p>BMVC2 (o-BMVC)</p> <p>Cat. No.: HY-135776</p>
<p>BMVC-8C30 is a DNA G-quadruplex (G4) ligand which can induce topological conversion of non-parallel to parallel forms in human telomeric DNA G4s.</p> <p>Purity: 99.01%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>	<p>BMVC2 (o-BMVC) is a bisubstitute carbazole derivative of BMVC. BMVC2 is a G-quadruplex (G4) stabilizer.</p> <p>Purity: >98%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 1 mg, 5 mg</p>
<p>Phen-DC3 Trifluoromethanesulfonate (Phen-DC3 Triflate)</p> <p>Cat. No.: HY-15594A</p>	<p>Pyridostatin hydrochloride (RR82 hydrochloride)</p> <p>Cat. No.: HY-15176A</p>
<p>Phen-DC3 Trifluoromethanesulfonate is a G-quadruplex (G4) specific ligand which can inhibit FANCD1 and DinG helicases with IC_{50}s of 65 ± 6 and 50 ± 10 nM, respectively.</p> <p>Purity: 99.53%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 1 mg, 5 mg, 10 mg, 50 mg</p>	<p>Pyridostatin (RR82) hydrochloride is a G-quadruplex DNA stabilizing agent ($K_d=490$ nM). Pyridostatin hydrochloride promotes growth arrest in human cancer cells by inducing replication- and transcription-dependent DNA damage.</p> <p>Purity: 98.77%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg</p>
<p>Pyridostatin TFA (RR82 TFA)</p> <p>Cat. No.: HY-15176B</p>	<p>TMPyP4 tosylate (TMP 1363)</p> <p>Cat. No.: HY-108477</p>
<p>Pyridostatin (RR82) TFA is a G-quadruplex DNA stabilizing agent ($K_d=490$ nM). Pyridostatin TFA promotes growth arrest in human cancer cells by inducing replication- and transcription-dependent DNA damage. Pyridostatin TFA targets the proto-oncogene Src.</p> <p>Purity: >98%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 1 mg, 5 mg</p>	<p>TMPyP4 tosylate (TMP 1363) is a quadruplex-specific ligand, which inhibits the interaction between G-quadruplexes and IGF-1. TMPyP4 tosylate (TMP 1363) is a telomerase inhibitor with antitumor effects in osteosarcoma cell lines.</p> <p>Purity: >98.0%</p> <p>Clinical Data: No Development Reported</p> <p>Size: 100 mg</p>