CD BioGlyco
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-637-6119 | Email: info@bioglyco.com

# Product Information

## PARP inhibitor, RK-287107, Purity ≥98%

**Cat. No.:** X24-08-YM008

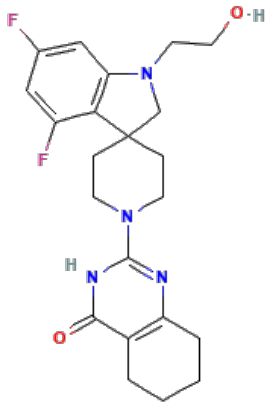
**Size:** 5 mg; 10 mg; 50 mg; 100 mg

**CAS Number:** 2171386-10-8

**Compound CID:** 137701512

**Synonym:** 2171386-10-8; RK287107; RK 287107;
2-[4,6-Difluoro-1-(2-hydroxyethyl)spiro[2*H*
-indole-3,4'-piperidine]-1'-yl]-5,6,7,8-tetrahydro-3*H*-quinazolin-4-one

**This product is for research use only and is not intended for diagnostic use.**



## Product Information

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| **Description** | RK-287107, soluble in DMSO, water and ethanol, is an effective DNA damage inhibitor, that has the ability to prevent the pathway of epigenetics by inhibiting PARP. It targets the tankyrase-1 and tankyrase-2. |
| **Molecular Weight** | 416.46 |
| **Molecular Formula** | $C_{22}H_{26}F_2N_4O_2$ |
| **Targets** | Tankyrase-1: 14.3 nM ($IC_{50}$); Tankyrase-2: 10.6 nM ($IC_{50}$) |
| **IUPAC Name** | 2-[4,6-Difluoro-1-(2-hydroxyethyl)spiro[2*H*<br>-indole-3,4'-piperidine]-1'-yl]-5,6,7,8-tetrahydro-3*H*-quinazolin-4-one |
| **InChI** | InChI=1S/C22H26F2N4O2/c23-14-11-16(24)19-18(12-14)28(9-10-29)13-22(19)5-7-27(8-6-22)21-25<br>-17-4-2-1-3-15(17)20(30)26-21/h11-12,29H,1-10,13H2,(H,25,26,30) |
| **InChI Key** | FZQYCOUBRJEYBC-UHFFFAOYSA-N |
| **Canonical SMILES** | C1CCC2=C(C1)C(=O)NC(=N2)N3CCC4(CC3)CN(C5=C4C(=CC(=C5)F)F)CCO |
| **Form** | Lyophilized powder |
| **Purity** | ≥98% |
| **Titer** | Free from inappropriate visible particulates, foreign matter, discoloration, or other defects |
| **Solubility** | *In vitro*: DMSO: 81 mg/mL (194.49 mM); Water: <1 mg/mL; Ethanol: <1 mg/mL |
| **Stability** | In its lyophilized form, the chemical remains stable for 36 months. |
| **Quality Level** | Research grade |
| **Applications** | RK-287107 is an epigenetic inhibitor that can be studied extensively for its potential therapeutic applications in the treatment of cancers and inflammatory diseases by disrupting the NF-κB |

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| | signaling pathway, which plays a role in promoting cell survival and proliferation. |
| **Storage** | Store at -20ºC, and keep desiccated. |