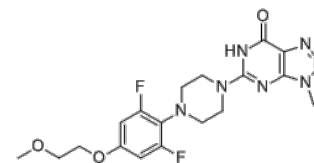


Product Name : STP1002
Cat. No. : PC-49120
CAS No. : 1858179-75-5
Molecular Formula : C₁₈H₂₁F₂N₇O₃
Molecular Weight : 421.409
Target : PARP
Solubility : 10 mM in DMSO



Biological Activity

STP1002 (Basoparib) is a potent, selective and orally active inhibitor of **tankyrase 1/2 (TNKS1/2)** with IC₅₀ of 5.8/3.2 nM, respectively, shows excellent selectivity against PARP1/2 compared to XAV939.

STP1002 does not inhibit members of the poly (ADP-ribose) polymerase 1/2 (PARP1/2), does not substantially modulates receptor binding for 68 receptors, inhibits enzyme activity or have cellular agonist or antagonist function for 468 panels in a battery of radioligand binding assays at 2 uM and 468 human kinases at 1 uM.

STP1002 significantly inhibits Wnt/b-catenin signalling (IC₅₀=8.3 nM) compared to XAV939 and IWR-1.

STP1002 exerts antitumour activity by stabilising AXINs and antagonising the Wnt/ β -catenin pathway in a subset of APC-mutated CRC cell lines, but not in inhibitor-resistant cells and APC-wild-type CRC cell lines.

STP1002 stabilises AXINs in adenomatous polyposis coli-mutated colorectal cancer cell lines and in vivo.

STP1002 (10-30 mg/kg/QD, p.o.) inhibits tumour growth of APC-mutated CRC xenograft animal models but not of APC-wild type models in a dose-dependent manner, also inhibits tumour growth in APC-mutated CRC patient-derived tumour xenograft models.

STP1002 shows no significant on-target toxicity in the GI tract compared to G007-LK.

References

Dong Young Kim, et al. *Eur J Cancer*. 2022 Jul 15;173:41-51.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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