## ERCC1-XPF-IN-2

MedChemExpress

Cat. No.:	HY-147356
CAS No.:	1808986-37-9
Molecular Formula:	C <sub>15</sub> H <sub>13</sub> Cl <sub>2</sub> NO <sub>3</sub>
Molecular Weight:	326.17
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, protect from light
	* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

## SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 250 mg/mL (766.47 mM) \* "≥" means soluble, but saturation unknown.

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.0659 mL	15.3294 mL	30.6589 mL
	5 mM	0.6132 mL	3.0659 mL	6.1318 mL
	10 mM	0.3066 mL	1.5329 mL	3.0659 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTI	VITY
Description	ERCC1-XPF-IN-2 is a potent ERCC1-XPF endonuclease inhibitor with an IC <sub>50</sub> value of 0.6 μM. ERCC1-XPF-IN-2 shows activity in nucleotide excision repair, cisplatin enhancement and γH2AX assays <sup>[1]</sup> .
IC <sub>50</sub> & Target	ERCC1-XPF <sup>[1]</sup>
In Vitro	<ul> <li>ERCC1-XPF-IN-2 (compound 13) (0-100 μM) shows FEN-1 and DNase I activity with IC<sub>50</sub>s of &gt;100, &gt;100 μM, respectively<sup>[1]</sup>.</li> <li>ERCC1-XPF-IN-2 slow binding kinetics with an K<sub>d</sub> value of ~30 μM<sup>[1]</sup>.</li> <li>ERCC1-XPF-IN-2 shows not toxic to Hep-G2 cells at 10 μM and relatively short mouse and human microsomal half-lives with t 1/2 value of 23 min and 28 min for mouse and human, respectively.ERCC1-XPF-IN-2 (0-60 μM; 24 h) shows inhibition of nucleotide excision repair (NER) with an IC<sub>50</sub> value of 15.6 μM in A375 cells<sup>[1]</sup>.</li> <li>ERCC1-XPF-IN-2 (0-60 μM) increases the cisplatin activity with no toxicity<sup>[1]</sup>.</li> <li>ERCC1-XPF-IN-2 (10 μM; 6h) causes a delay in DNA repair by a right shift towards higher numbers of γH2AX foci per cell<sup>[1]</sup>.</li> <li>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</li> <li>Cell Cytotoxicity Assay<sup>[1]</sup></li> </ul>

## Product Data Sheet

`N´ H

CI

OH

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Cell Line:	A375 cells
Concentration:	0-60 μΜ
Incubation Time:	
Result:	Showed no toxicity and increased the cisplatin activity up to 1.5-fold (PF50).

## REFERENCES

[1]. Chapman TM, et al. Catechols and 3-hydroxypyridones as inhibitors of the DNA repair complex ERCC1-XPF. Bioorg Med Chem Lett. 2015 Oct 1;25(19):4097-103.

Caution: Product has not been fully validated for medical applications. For research use only.

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