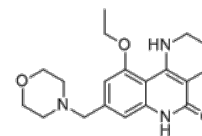


Product Name : Amelparib
Cat. No. : PC-35437
CAS No. : 1227156-72-0
Molecular Formula : C₁₉H₂₅N₃O₃
Molecular Weight : 343.427
Target : PARP
Solubility : 10 mM in DMSO



Biological Activity

Amelparib (JPI-289, JPI289) is a novel potent, water soluble **PARP-1** inhibitor with IC₅₀ of 18.5 nM, inhibits cellular PAR formation with IC₅₀ of 10.7 nM.

Amelparib does not affect cell viability up to 1 mM in rat cortical neuronal cells.

Amelparib attenuates PARP activity restores ATP and NAD⁺ levels in oxygen glucose deprived (OGD) rat cortical neurons, reduces apoptosis-associated molecules such as apoptosis inducing factor (AIF), cytochrome C and cleaved caspase-3 in the OGD model.

JPI-289 is a potential neuroprotective agent which could be useful as a treatment for acute ischaemic stroke.

References

Kim Y, et al. Clin Exp Pharmacol Physiol. 2017 Jun;44(6):671-679.

Kim Y, et al. Mol Neurobiol. 2018 Jan 30. doi: 10.1007/s12035-018-0910-6.

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

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