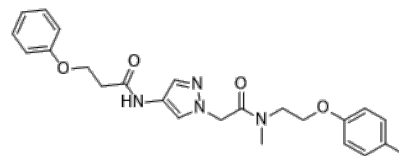


Product Name : IXA4
Cat. No. : PC-23415
CAS No. : 1185329-96-7
Molecular Formula : C₂₄H₂₈N₄O₄
Molecular Weight : 436.51
Target : IRE1
Solubility : 10 mM in DMSO



Biological Activity

IXA4 is a specific activator of IRE1/XBP1s signalling activator, promotes IRE1-dependent XBP1 splicing, selective activates the IRE1/XBP1s signaling.

IXA4 does not affect the UPR or other stress-responsive signaling pathways.

IXA4 increases IRE1 RNase activity through a mechanism independent of binding the IRE1 nucleotide-binding pocket.

IXA4 is distinct from currently available IRE1 activators, which bind the kinase active site.

IXA4 improves ER proteostasis of AD-relevant APP mutants, reducing the secretion of A β through the increased targeting of APP to degradation.

IXA4 reduces mitochondrial dysfunction associated with mutant APP overexpression, likely reflecting the reduced intracellular APP afforded by compound treatment.

References

Grandjean JMD, et al. Nat Chem Biol. 2020 Oct;16(10):1052-1061.

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

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