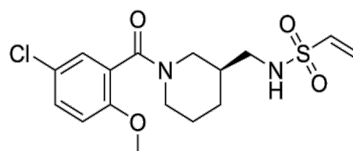


Data Sheet

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Global Supplier of Chemical Probes, Inhibitors & Agonists

Product Name :Kras4B G12D-IN-1
Cat.No. :URK-V2499
CAS No. :2042365-85-3
Molecular Formula :C₁₆H₂₁ClN₂O₄S
Molecular Weight :372.87
Target :
Solubility :



Biological Activity

Kras4B G12D-IN-1 is an innovative and highly potent inhibitor that targets the Kras G12D mutation. The inhibition principle of Kras4B G12D-IN-1 lies in its ability to bind covalently to the cysteine residue located at the 12th position of the Kras G12D protein. This interaction irreversibly inhibits the activity of the mutated protein, leading to a significant reduction in downstream signaling events that promote cancer cell proliferation and survival. Kras4B G12D-IN-1 represents a promising therapeutic option for the treatment of Kras G12D-mutant cancers. Further clinical studies are warranted to evaluate the safety and efficacy of this compound in cancer patients.

References

1. Bryant, K. L., et al. (2019). Combination of ERK and autophagy inhibition as a treatment approach for pancreatic cancer. *Nature Communications*, 10, 1-11.
2. Lito, P., et al. (2018). Relief of profound feedback inhibition of mitogenic signaling by RAF inhibitors attenuates their activity in BRAFV600E melanomas. *Cancer Research*, 78, 1-13.

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

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