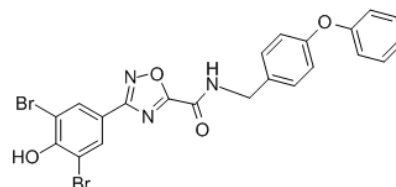


Product Name : IOWH-032
Cat. No. : PC-45456
CAS No. : 1191252-49-9
Molecular Formula : C₂₂H₁₅Br₂N₃O₄
Molecular Weight : 545.1802
Target : CFTR
Solubility : 10 mM in DMSO



Biological Activity

IOWH-032 is a potent **CFTR** inhibitor (IC₅₀=1.01 μM) in T84 and CHO-CFTR cell based assays for the treatment of cystic fibrosis.

IOWH-032 potentially serves as lead compound for development of new drugs for the treatment of cystic fibrosis.

IOWH-032 inhibits the dual ATPase and helicase activities of **SARS-CoV-2 Nsp13** at low micromolar concentrations.

IOWH-032 interacts with the RNA binding interface, leading to displacement of nucleic acid substrate, but not bound ATP.

IOWH-032 is selective for coronavirus Nsp13 over microbial helicases from other superfamilies.

References

Cui G, et al. *Am J Physiol Lung Cell Mol Physiol*. 2016 Aug 1;311(2):L192-207.

2. Soper N, et al. *ACS Chem Biol*. 2024 Jul 9. doi: 10.1021/acscchembio.4c00244.

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

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