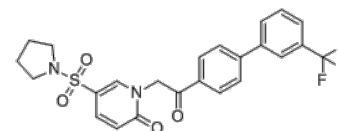


Product Name : TBOPP
Cat. No. : PC-62562
CAS No. : 1996629-79-8
Molecular Formula : C₂₄H₂₁F₃N₂O₄S
Molecular Weight : 490.497
Target : Small GTPase
Solubility : 10 mM in DMSO



Biological Activity

TBOPP is a selective inhibitor of Rac-specific guanine nucleotide exchange factor **DOCK1**, inhibits DOCK1-mediated Rac activation with IC₅₀ of 8.4 μM.

TBOPP binds to DOCK1 DHR-2 domain with K_d of 7.1 μM.

TBOPP dampens DOCK1-mediated invasion, macropinocytosis, and survival under the condition of glutamine deprivation without impairing the biological functions of DOCK2 and DOCK5 proteins.

TBOPP blocks cancer cell invasion and survival in vitro, suppresses cancer metastasis and growth in vivo in mice.

References

Tajiri H, *Cell Rep.* 2017 May 2;19(5):969-980.

Tomino T, et al. *Biochem Biophys Res Commun.* 2018 Feb 26;497(1):298-304.

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

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