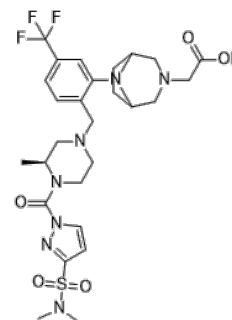


Product Name : ABD957
Cat. No. : PC-72214
CAS No. : 3007772-60-0
Molecular Formula : C₂₇H₃₆F₃N₇O₅S
Molecular Weight : 627.684
Target : Ras
Solubility : 10 mM in DMSO



CAS: 3007772-60-0

Biological Activity

ABD957 (ABD-957) is a potent, selective covalent inhibitor of the **ABHD17** family of depalmitoylases, impairs N-Ras depalmitoylation in human AML cells.

ABD957 inhibits human ABHD17B (recombinantly expressed) with IC₅₀ of 0.21 μM in lysates of HEK293T cells, does not inhibit LYPLA1, LYPLA2, or ABHD10.

ABD957 inhibits all three ABHD17s and partially impairs N-Ras depalmitoylation, ERK phosphorylation, and the growth of NRAS mutant cancer cells.

ABD957 stabilizes N-Ras palmitoylation less completely than Palm M, but is much more selective across the proteome.

ABD957 also impacted the subcellular distribution of N-Ras, leading to the accumulation of this protein at the plasma membrane.

ABD957 synergizes with MEK inhibition to block NRAS mutant cancer cell growth.

References

Jarrett R Remsberg, et al. *Nat Chem Biol*. 2021 Aug;17(8):856-864.

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

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