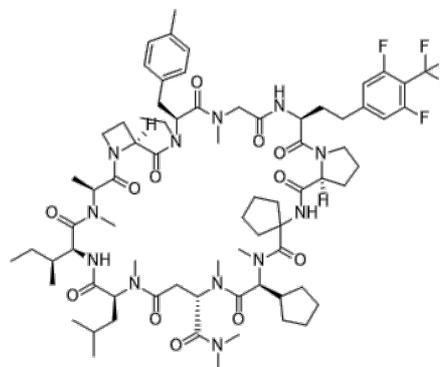


Product Name : LUNA18
Cat. No. : PC-22631
CAS No. : 2676177-63-0
Molecular Formula : C₇₃H₁₀₅F₅N₁₂O₁₂
Molecular Weight : 1437.71
Target : Ras
Solubility : 10 mM in DMSO



CAS: 2676177-63-0

Biological Activity

Paluratide (LUNA18) is a highly potent, 11-mer cyclic peptide inhibitor of **KRAS** with IC₅₀ of <2 nM for KRAS G12D-SOS1 PPI, KD of 0.043 nM for KRAS G12C.

LUNA18 has a cellular IC₅₀ of 1.4 nM in AsPC-1 viability assay.

LUNA18 showed significant cellular efficacy (IC₅₀ = 0.17-2.9 nM) against cell lines with KRAS genetic alterations, such as LS180 (colon cancer, KRASG12D), GSU (stomach cancer, KRASG12D), NCI-H441 (non-small cell lung cancer (NSCLC), KRASG12V), NCI-H2122 (NSCLC, KRASG12C), and MiaPaCa-2 (pancreatic cancer, KRASG12C), in addition to AsPC-1.

LUNA18 (10 mg/kg, oral, once daily for 14 days) exhibits in vivo tumor growth inhibition in mice bearing an NCI-H441 (KRAS G12V) or a MiaPaCa-2 (KRASG12C) xenograft.

References

Tanada M, et al. *J Am Chem Soc.* 2023 Aug 2;145(30):16610-16620.

Nomura K, et al. *J Med Chem.* 2022 Oct 13;65(19):13401-13412.

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

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