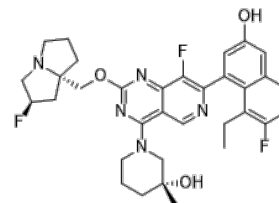


Product Name : AM-2383
Cat. No. : PC-27366
CAS No. : 2791263-84-6
Molecular Formula : C₃₃H₃₆F₃N₅O₃
Molecular Weight : 607.68
Target : Ras
Solubility : 10 mM in DMSO



CAS: 2791263-84-6

Biological Activity

AM-2383 is a potent, selective pan-KRAS inhibitor that blocks signaling via both the GDP(off)- and GTP(on)-bound states of KRAS, potently bind to a diverse set of common oncogenic KRAS mutants with IC₅₀ of 2-10 nM in NanoBRET KRAS target engagement assay, also potently bind to KRAS WT (IC₅₀=2 nM).

AM-2383 shows little activity toward related RAS isoforms (HRAS Coupled Exchange Activity IC₅₀ = 0.320 (>80-fold selectivity); NRAS Coupled Exchange Activity IC₅₀ = 1.60 μM (>400-fold selectivity).

AM-2383 binds to KRAS WT with a K_D value of 0.03 nM, with much weaker affinity for HRAS and NRAS with a K_D value of 139 nM and 2.6 μM.

AM-2383 potently inhibits ERK phosphorylation across common KRAS mutants (G12D, G12V, & G12C; IC₅₀ = 3-9 nM) across KRAS mutant cell lines.

AM-2383 shows robust antiproliferative activity (avg. IC₅₀ = 30 nM) across KRAS mutant cell lines, does not impact proliferation in KRAS WT or NRAS mutant cell lines.

AM-2383 (100 mg/kg, QD, oral) induces 80% tumor growth inhibition (TGI) in AsPC-1 tumor xenograft model.

References

Wurz RP, et al. J Med Chem. 2026 Jul 23;69(14):17401-17415.

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

E-mail: tech@probechem.com