Product Datasheet

Eras-4001

Catalog No. **BP-06778** · CAS **3024878-19-8** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-11-13**

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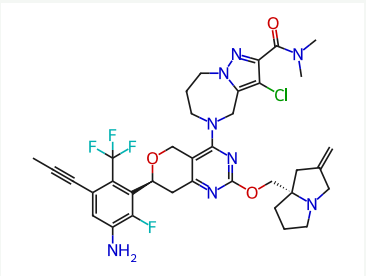
Target	Research area
Ras	**Cancer**

Molecular formula	$C_{36}H_{39}ClF_4N_8O_3$
Molecular weight	**743.1930**

STRUCTURE



DESCRIPTION

Eras-4001 (Compound 14-1) is a pan-KRAS inhibitor. Eras-4001 has potent antitumor activities and significantly inhibits the proliferation of wild-type and mutant (such as KRASG12D, KRASG12V and KRASG12C) cancer cells. Eras-4001 effectively inhibits tumor growth in GP2D and Panc0403 xenograft mouse models.

BIOLOGICAL ACTIVITY

In Vitro

Anti-cancer

Eras-4001 inhibits both active and inactive KRASG12D-RAF1 RBD complex formation with single-digit nanomolar potency[1].

Eras-4001 (3 hours) inhibits ERK phosphorylation in KRASWT and mutant cancer cell lines (AsPC-1, GP2d, MKN1, SW620, RKN, LoVo, LU99, A375), with quantified IC50 values reported[1].

Eras-4001 (4-7 days) potently inhibits 3D cell viability in KRASWT amplified cancer cell lines (IC50 0.7-9.1 nM), KRASG12X mutant cancer cell lines (IC50 0.7-56.0 nM), and KRASG13D mutant cancer cell lines (IC50 0.7-56.0 nM), and has minimal activity in KRASQ61H mutant and KRAS-independent cell lines[1].

In Vivo

Anti-cancer

Eras-4001 (10-300 mg/kg; p.o.; twice daily for 20 days) exhibits dose-dependent activity in a KRAS G12V non-small cell lung cancer mouse model[1].

Eras-4001 (30-300 mg/kg; p.o.; twice daily for 15 consecutive days) exhibits significant tumor regression in a mouse KRAS G12V ovarian cancer model[1].

Eras-4001 (30-100 mg/kg; p.o.; twice daily for 30 consecutive days) exhibits significant tumor regression in a patient-derived xenograft mouse model of G12D non-small cell lung cancer[1].

SOLUBILITY

soluble in DMSO

REFERENCES

[1]. Zhang Y, et al. Heterocyclic substituted pyrimidopyran compound and use thereof. WO2023246914A1. 2023-12-28.

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