

Product Datasheet

K-Ras G12C-IN-4

Catalog No. **BP-02004** · CAS **2376328-55-9** · Form **free base** · Physical state **solid** · Color **white to off-white** · Version **1.0** · Revision **2026-09-10**

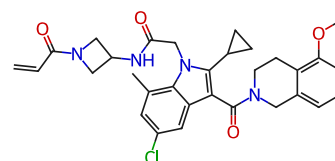
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Target Ras	Research area Cancer
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Molecular formula **C₃₁H₃₃ClN₄O₄**

Molecular weight **561.0710**

STRUCTURE



DESCRIPTION

K-Ras G12C-IN-4, compound 1, is a potent Covalent Inhibitor of KRASG12C.

BIOLOGICAL ACTIVITY

In Vitro

K-Ras G12C-IN-4 (4 hours) exhibits IC₅₀=0.219 μM for inhibition of MAPK signaling (p-ERK) in MIA PaCa-2 cells.

K-Ras G12C-IN-4 (72 hours) translates to a 0.067 μM IC₅₀ for inhibition of cellular viability in a CellTiter-Glo experiment in MIA PaCa-2 cells.

SOLUBILITY

Soluble in DMSO : 60 mg/mL (111.35 mM; Need ultrasonic(<60°C); hygroscopic DMSO has a significant impact on product solubility, please use newly opened DMSO)

REFERENCES

[1]. Shin Y, et al. Discovery of N-(1-Acryloylazetidin-3-yl)-2-(1H-indol-1-yl)acetamides as Covalent Inhibitors of KRASG12C. ACS Med Chem Lett. 2019 Aug 20;10(9):1302-1308.

Tel: +86 20 31130026 · Fax: +86 20 36822386 · tech@biochemprobe.com · www.biochemprobe.com

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