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Data Sheet

Product Name: Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Solubility:	KRAS inhibitor-9 CS-0139330 300809-71-6 C ₁₃ H ₉ ClN ₂ S ₂ 292.81 Apoptosis; Ras Apoptosis; GPCR/G Protein DMSQ : 250 mg/mL (853 80 mM: Need ultrasonic)	
Solubility:	DMSO : 250 mg/mL (853.80 mM; Need ultrasonic)	



BIOLOGICAL ACTIVITY:

KRAS inhibitor-9, a potent **KRAS** inhibitor (K_d =92 µM), blocks the formation of GTP-KRAS and downstream activation of KRAS. KRAS inhibitor-9 binds to KRAS G12D, KRAS G12C and KRAS Q61H protein with a moderate binding affinity. KRAS inhibitor-9 causes G2/M cell cycle arrest and induces **apoptosis**. KRAS inhibitor-9 selectively inhibits the proliferation of NSCLC cells with KRAS mutation but not normal lung cells^[1]. **In Vitro:** KRAS inhibitor-9 bound to KRASG12D, KRAS G12C and KRAS Q61H protein with a moderate binding affinity of -5.38, -5.41, and -3.97 kcal/mol, respectively^[1].

KRAS inhibitor-9 (0-100 μ M) shows strong inhibition selectivity in NSCLC cells with IC₅₀s ranging from 39.56 to 66.02 μ M for H2122, H358 and H460 cells (at 72 hours)^[1].

KRAS inhibitor-9 (0-100 μM; 24 hours) blocks GTP-KRAS formation in H2122, H358 and H460 cells^[1].

KRAS inhibitor-9 (25-100 μM; 48 hours) inhibits the activation of KRAS downstream signaling pathway^[1].

KRAS inhibitor-9 (0-100 μM; 24-72 hours) induces cell cycle arrest and apoptosis in NSCLC^[1].

References:

[1]. Xie C, et al. Identification of a New Potent Inhibitor Targeting KRAS in Non-small Cell Lung Cancer Cells. Front Pharmacol. 2017;8:823. Published 2017 Nov 14.

CAIndexNames:

Benzenamine, 4-(2-benzothiazolylthio)-3-chloro-

SMILES:

NC1=CC=C(SC2=NC3=CC=CC=C3S2)C(CI)=C1

Caution: Product has not been fully validated for medical applications. For research use only.

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