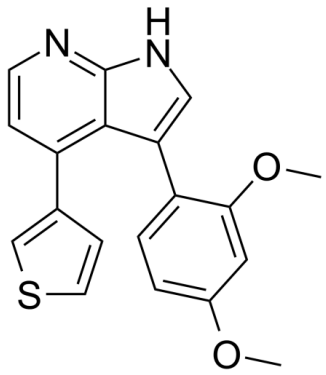
Data Sheet

Product Name:	ARN-3236
Cat. No.:	CS-0079380
CAS No.:	1613710-01-2
Molecular Formula:	C19H16N2O2S
Molecular Weight:	336.41
Target:	Salt-inducible Kinase (SIK)
Pathway:	Immunology/Inflammation
Solubility:	DMSO : 130 mg/mL (386.43 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

ARN-3236 is an oral active and selective inhibitor of **salt-inducible kinase 2 (SIK2)**, with **IC_{50}s** of <1 nM, 21.63 nM and 6.63 nM for SIK2, SIK1 and SIK3, respectively. Has anti-cancer activity[1][2]. IC50 & Target: IC50: < 1 nM (SIK2)[1][2]. **In Vitro:** ARN-3236 inhibits SIK2 activity with an IC_{50} <1 nM[2].

ARN-3236 inhibits cell growth and increases NSC 125973 sensitivity in ovarian cancer cells[2]. **In Vivo:** ARN-3236 (60 mg/kg, orally) sensitizes ovarian cancer to NSC 125973 in vivo[2].

References:

[1]. Lombardi MS, et al. SIK inhibition in human myeloid cells modulates TLR and IL-1R signaling and induces an anti-inflammatory phenotype. J Leukoc Biol. 2016 May;99(5):711-21.

[2]. Zhou J, et al. A Novel Compound ARN-3236 Inhibits Salt-Inducible Kinase 2 and Sensitizes Ovarian Cancer Cell Lines and Xenografts. Clin Cancer Res. 2017 Apr 15;23(8):1945-1954.

CAIndexNames:

1H-Pyrrolo[2,3-b]pyridine, 3-(2,4-dimethoxyphenyl)-4-(3-thienyl)-

SMILES:

COC1=CC=C(C2=CNC3=NC=CC(C4=CSC=C4)=C32)C(OC)=C1

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