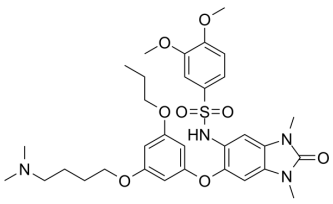
IACS-9571

Cat. No.:	HY-102000
CAS No.:	1800477-30-8
Molecular Formula:	$C_{32}H_{42}N_4O_8S$
Molecular Weight:	642.76
Target:	Epigenetic Reader Domain
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	IACS-9571 is a potent and selective inhibitor of TRIM24 and BRPF1, with IC_{50} of 8 nM for TRIM24, and K_ds of 31 nM and 14 nM for TRIM24 and BRPF1, respectively.
IC_{50} & Target	IC50: 8 nM (TRIM24)[1] Kd: 31 nM (TRIM24), 14 nM (BRPF1)[1]
In Vitro	IACS-9571 shows excellent cellular potency with EC_{50} of 50 nM. IACS-9571 (1 μM) has potent activities against a panel of 32 bromodomains. IACS-9571 is a selective dual TRIM24/BRPF1 inhibitor (K_d = 1.3/2.1 nM) with 9- and 21-fold selectivity against BRPF2 and BRPF3, respectively. IACS-9571 does not interact with the BET sub-family of bromodomains, displaying greater than 7,700-fold selectivity versus BRD4(1, 2) relative to TRIM24[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Palmer WS, et al. Structure-Guided Design of IACS-9571, a Selective High-Affinity Dual TRIM24-BRPF1 Bromodomain Inhibitor. J Med Chem. 2016 Feb 25;59(4):1440-54.

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