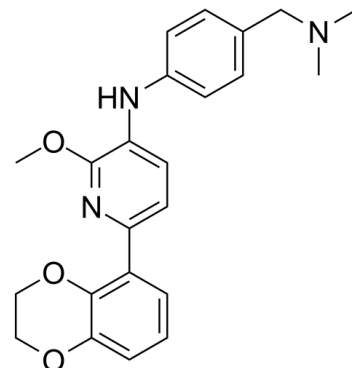


## Data Sheet

<b>Product Name:</b>	RAS inhibitor Abd-7
<b>Cat. No.:</b>	CS-0090089
<b>CAS No.:</b>	2351843-48-4
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>25</sub> N <sub>3</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	391.46
<b>Target:</b>	Ras
<b>Pathway:</b>	GPCR/G Protein
<b>Solubility:</b>	DMSO : 125 mg/mL (319.32 mM; Need ultrasonic); H <sub>2</sub> O : < 0.1 mg/mL (insoluble)



### BIOLOGICAL ACTIVITY:

RAS inhibitor Abd-7, a potent RAS-binding compound ( $K_d=51$  nM), is a **RAS-effector protein-protein interaction (PPI)** inhibitor. RAS inhibitor Abd-7 interacts with RAS inside the cells, prevents RAS-effector interactions and inhibits endogenous RAS-dependent signaling. RAS inhibitor Abd-7 impairs the PPI of various mutant KRAS proteins with PI3K, CRAF and RALGDS as well as NRAS Q61H and HRAS G12V<sup>[1]</sup>. **In Vitro:** RAS inhibitor Abd-7 (0-20  $\mu$ M; 24-48 hours) is a cell-potent inhibitor affecting the viability of cancer cell lines in a single digit to low micromolar range<sup>[1]</sup>.

### References:

[1]. Quevedo CE, et al. Small molecule inhibitors of RAS-effector protein interactions derived using an intracellular antibody fragment. Nat Commun. 2018;9(1):3169. Published 2018 Aug 9.

### CAIndexNames:

3-Pyridinamine, 6-(2,3-dihydro-1,4-benzodioxin-5-yl)-N-[4-[(dimethylamino)methyl]phenyl]-2-methoxy-

### SMILES:

COC1=NC(C2=C3C(OCCO3)=CC=C2)=CC=C1NC4=CC=C(CN(C)C)C=C4

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

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