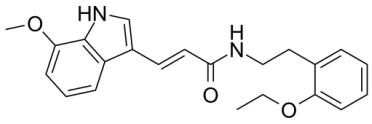
Data Sheet

Product Name:	JI051
Cat. No.:	CS-0063785
CAS No.:	2234281-75-3
Molecular Formula:	$C_{22}H_{24}N_2O_3$
Molecular Weight:	364.44
Target:	Notch
Pathway:	Neuronal Signaling; Stem Cell/Wnt
Solubility:	DMSO : 125 mg/mL (342.99 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

JI051 is a stabilizer for the **Hes1-PHB2** interaction. JI051 interacts with a cancer-associated protein chaperone prohibitin 2 (**PHB2**), induces cell-cycle arrest by inhibiting the **Notch** downstream effector gene Hes1. Anti-cancer activity[1]. **In Vitro:** JI051 causes G2/M cell-cycle arrest[1].

JI051 (0.1-10 μM, 24 hours) significantly inhibits cell proliferation of HEK293 cells, with an EC_{50} of 0.3 μM[1].

References:

[1]. Perron A, et al. Small-molecule screening yields a compound that inhibits the cancer-associated transcription factor Hes1 via the PHB2 chaperone. J Biol Chem. 2018 May 25;293(21):8285-8294.

CAIndexNames:

2-Propenamide, N-[2-(2-ethoxyphenyl)ethyl]-3-(7-methoxy-1H-indol-3-yl)-, (2E)-

SMILES:

O=C(NCCC1=CC=CC=C1OCC)/C=C/C2=CNC3=C2C=CC=C3OC

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

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