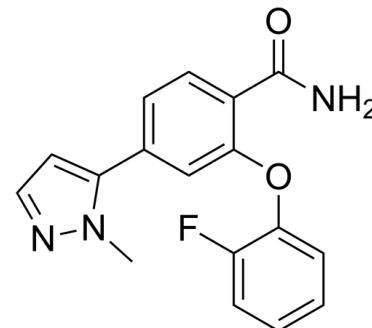


## Data Sheet

<b>Product Name:</b>	RBPJ Inhibitor-1
<b>Cat. No.:</b>	CS-0138694
<b>CAS No.:</b>	2682114-39-0
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>14</sub> FN <sub>3</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	311.31
<b>Target:</b>	Notch
<b>Pathway:</b>	Neuronal Signaling; Stem Cell/Wnt
<b>Solubility:</b>	DMSO : 250 mg/mL (ultrasonic)



### BIOLOGICAL ACTIVITY:

RBPJ Inhibitor-1 (RIN1), the first **RBPJ** inhibitor, blocks the functional interaction of RBPJ with SHARP. RBPJ Inhibitor-1 (RIN1) inhibits NOTCH-dependent tumor cell proliferation<sup>[1]</sup>. *In Vitro*: RIN1 inhibits the proliferation of hematologic cancer cell lines and promoted skeletal muscle differentiation from C2C12 myoblasts<sup>[1]</sup>.

RIN1 (0.6 μM, corresponding to 3 × IC<sub>50</sub>) decreases the number of MHC+ cells and increased the number of nuclei per cell, indicating that it induces the formation of multinucleated myofibers<sup>[1]</sup>.

### References:

[1]. Cecilia Hurtado, et al. Disruption of NOTCH signaling by a small molecule inhibitor of the transcription factor RBPJ. Sci Rep. 2019 Jul 25;9(1):10811.

### CAIndexNames:

Benzamide, 2-(2-fluorophenoxy)-4-(1-methyl-1H-pyrazol-5-yl)-

### SMILES:

O=C(N)C1=CC=C(C2=CC=NN2C)C=C1OC3=CC=CC=C3F

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

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