

**DATA SHEET**

**Product Name:** ISX9

**Catalog #:** N-3010

**Alt:** *N*-Cyclopropyl-5-(2-thienyl)-3-isoxazolecarboxamide

**Source:** Synthetic

**Molecular Mass:** 234.3 C<sub>11</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>S

**Analysis:** >99% (TLC); NMR (Conforms)

**Supplied As:** Tan powder

**Resuspension:** May be dissolved in DMSO (60 mg/ml): or ethanol (16 mg/ml, warm)

**Storage:** Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 3 months.

**Description:** Promotes neurogenesis *in vivo* enhancing the proliferation and differentiation of hippocampal subgranular zone neuroblasts and enhances memory<sup>1</sup>. Induces robust neuronal differentiation in adult neural stem cells<sup>2</sup>. Increases insulin production by pancreatic  $\beta$  cells<sup>3</sup>. Blocks malignant astrocyte proliferation, downregulates their astrocyte character, induces reentry into the cell cycle and upregulates neuronal gene expression<sup>4</sup>. Induces sensory neurons from neuroepithelial stem cells<sup>5</sup>.

**References:**

1. Petrick, D., et al., (2012) FASEB J., 26: 3148
2. Schneider, J.W., et al., (2008) Nat. Chem. Biol., 4: 408
3. Dioum, E.M., et al., (2011) Proc. Natl. Acad. Sci. U.S.A., 108: 20713
4. Zhang, L., et al., (2011) Differentiation, 81: 233
5. Ali, R.Q., et al., (2016) Am. J. Stem Cells, 5: 19

**For research use only. Not for use in humans.**