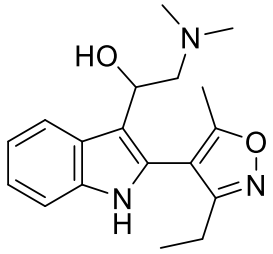
Product data sheet

MedKoo Cat#: 461814 Name: SARI-59-801 CAS#: 80565-58-8 Chemical Formula: $C_{18}H_{23}N_3O_2$ Exact Mass: 313.179 Molecular Weight: 313.4	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years.
	In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:
Sari 59-801 is a novel, orally effective hypoglycemic compound which appears to act largely, if not entirely, by stimulation of insulin release. The 2-hr hypoglycemic ED25 in fasting mice was 110 mg/kg; the plasma insulin levels were increased, with an ED50 of 47 mg/kg. Significant hypoglycemic activity was observed 2 hr after oral administration of 59-801 to fasting rats (ED25 = 86 mg/kg), while plasma insulin was elevated by 62% at 100 mg/kg. SARI-59-801 was more potent in producing hypoglycemia (ED25 = 47 mg/kg) than their lean littermates (ED25 = 131 mg/kg).

2. CoA, QC data, SDS, and handling instruction
SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under "QC And Documents" section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
N/A	N/A	N/A

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	3.19 mL	15.95 mL	31.91 mL
5 mM	0.64 mL	3.19 mL	6.38 mL
10 mM	0.32 mL	1.60 mL	3.19 mL
50 mM	0.06 mL	0.32 mL	0.64 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator
Please refer the product web page under section of "Calculator"

6. Recommended literature which reported protocols for in vitro and in vivo study
In vitro study

1. Hanson RL, Isaacson CM. Stimulation of insulin secretion from isolated rat islets by SaRI 59-801. Relation to cAMP concentration and Ca2+ uptake. Diabetes. 1985 Jul;34(7):691-5. doi: 10.2337/diab.34.7.691. PMID: 2408949.
2. Hanson RL, Isaacson CM, Boyajy LD. Stimulation of insulin secretion from isolated rat islets by SaRI 59-801. Diabetes. 1985 Jun;34(6):548-52. doi: 10.2337/diab.34.6.548. PMID: 3924691.

In vivo study

1. Ho RS, Wiseberg JJ, Brand LJ, Nadelson J, Boyajy LD. A novel, orally effective hypoglycemic agent, SaRI 59-801, in laboratory animals. Drug Development Research. 1985 6(1):67-77. doi: 10.1002/ddr.430060109.

7. Bioactivity
Biological target:

SaRI 59-801 is an orally effective hypoglycemic compound. SaRI 59-801 decreases blood glucose in several species and to elevate plasma insulin in rats and mice.

Product data sheet

In vitro activity

59-801 stimulated insulin release by isolated rat islets at concentrations ranging from 0.05 to 0.3 mM.

Reference: Diabetes. 1985 Jun;34(6):548-52. https://pubmed.ncbi.nlm.nih.gov/3924691/

In vivo activity

SaRI 59-801 (Figure 1) has been found to be an effective oral hypoglycemic agent in normal mice, rats, and monkeys at doses ranging from 10 to 200 mg/kg.

Reference: Drug Development Research. 1985 6(1):67-77. https://onlinelibrary.wiley.com/doi/abs/10.1002/ddr.430060109

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.