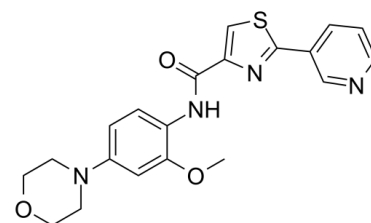


## Data Sheet

<b>Product Name:</b>	IRAK inhibitor 6
<b>Cat. No.:</b>	CS-0602
<b>CAS No.:</b>	1042672-97-8
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>20</sub> N <sub>4</sub> O <sub>3</sub> S
<b>Molecular Weight:</b>	396.46
<b>Target:</b>	IRAK
<b>Pathway:</b>	Immunology/Inflammation; Protein Tyrosine Kinase/RTK
<b>Solubility:</b>	DMSO : 8.33 mg/mL (21.01 mM; Need ultrasonic); H <sub>2</sub> O : < 0.1 mg/mL (insoluble)



### BIOLOGICAL ACTIVITY:

IRAK inhibitor 6 is an inhibitor of **interleukin-1 receptor associated kinase 4 (IRAK-4)** with **IC<sub>50</sub>** of 160 nM. IC<sub>50</sub> & Target: IC<sub>50</sub>: 160 nM (IRAK-4)<sup>[1]</sup> **In Vitro:** IRAK inhibitor 6 significantly improves potency against IRAK-4. Potency effects additive, IRAK inhibitor 6 is the most active compound among these compound tested<sup>[1]</sup>.

### References:

[1]. Buckley G, et al. IRAK-4 inhibitors. Part 1: a series of amides. Bioorg Med Chem Lett. 2008 Jun 1;18(11):3211-4.

### CAIndexNames:

4-Thiazolecarboxamide, N-[2-methoxy-4-(4-morpholinyl)phenyl]-2-(3-pyridinyl)-

### SMILES:

COC1=CC(N2CCOCC2)=CC=C1NC(C3=CSC(C4=CC=CN=C4)=N3)=O

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

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA