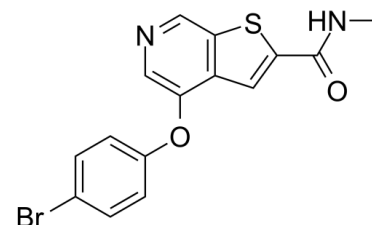


## Data Sheet

Product Name:	ICAM-1-IN-1
Cat. No.:	CS-7225
CAS No.:	251994-14-6
Molecular Formula:	C <sub>15</sub> H <sub>11</sub> BrN <sub>2</sub> O <sub>2</sub> S
Molecular Weight:	363.23
Target:	Others
Pathway:	Others
Solubility:	DMSO : ≥ 135 mg/mL (371.67 mM)



### BIOLOGICAL ACTIVITY:

ICAM-1-IN-1 is a potent and selective inhibitor of **E-selectin** and **ICAM-1** with **IC<sub>50</sub>** values of 7 and 5 nM, respectively. **IC<sub>50</sub> & Target:** IC<sub>50</sub>: 7 nM (E-selectin), 5 nM (ICAM-1)<sup>[1]</sup> **In Vivo:** ICAM-1-IN-1 shows significant efficacy in a rat rheumatoid arthritis model and in a mouse asthma model. ICAM-1-IN-1 reduces the width of inflamed ankles after the ninth day following treatment, but shows no efficacy in the acute phase. Treatment with ICAM-1-IN-1 (25 mg/kg) for 21 days significantly reduces the ankle inflammation of the arthritis rats. Significant reduction of eosinophils and serum-soluble ICAM-1 (sICAM-1) is observed<sup>[1]</sup>.

### PROTOCOL (Extracted from published papers and Only for reference)

**Animal Administration:** CAM-IN-1 is formulated in 0.2% methylcellulose<sup>[1]</sup>.<sup>[1]</sup> **Rats:** In a rat rheumatoid arthritis model, 26 all rats are treated with peptidoglycan polysaccharide to elicit the disease to a desired degree. Six rats per group are then treated with ICAM-1-IN-1 or vehicle control twice daily. The ankles of these rats are measured on day 0, 1, 3, 7, 9, 11, 16, 18, and 21 after administration. Histologic analyses of the ankles are performed on the last day of the experiment<sup>[1]</sup>.

### References:

[1]. Zhu GD, et al. Selective inhibition of ICAM-1 and E-selectin expression in human endothelial cells. 2. Arylmodifications of 4-(aryloxy)thieno[2,3-c]pyridines with fine-tuning at C-2 carbamides. J Med Chem. 2001 Oct 11;44(21):3469-87.

### CAIndexNames:

Thieno[2,3-c]pyridine-2-carboxamide, 4-(4-bromophenoxy)-N-methyl-

### SMILES:

O=C(C(S1)=CC2=C1C=NC=C2OC3=CC=C(Br)C=C3)NC

**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