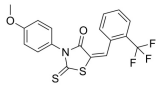
Product Datasheet

Physicochemical Properties

Product Name	CSC-6
Cat No.	V85526
Molecular Formula	C18H12F3NO2S2
Molecular Weight	395.42
Appearance	Typically exists as solid at room temperature
HS Tariff Code	2934.99.9001
Storage	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month
Shipping Condition	Room temperature (This product is stable at ambient temperature for a few days during ordinary shipping and time spent in Customs)



Solubility Data

Solubility (In Vitro)	Typically soluble in DMSO (e.g. 10 mM)
Solubility (In Vivo)	**Note:** Listed below are some common formulations that may be used to formulate products with low water solubility (e.g. < 1 mg/mL), you may test these formulations using a minute amount of products to avoid loss of samples. **Injection Formulations (e.g. IP/IV/IM/SC)** **Injection Formulation 1:** DMSO : Tween 80 Saline = 10 : 5 : 85 (i.e. **100 μL** DMSO stock solution → **50 μL** Tween 80 → **850 μL** Saline) *Preparation of saline: Dissolve 0.9 g of sodium chloride in 100 mL ddH 2 O to obtain a clear solution. **Injection Formulation 2:** DMSO : PEG300 Tween 80 : Saline = 10 : 40 : 5 : 45 (i.e. **100 μL** DMSO → **400 μL**PEG300 → **50 μL** Tween 80 → **450 μL** Saline) **Injection Formulation 3:** DMSO : Corn oil = 10 : 90 (i.e. **100 μL** DMSO → **900 μL** Corn oil) Example: Take the **Injection Formulation 3** (DMSO : Corn oil = 10 : 90) as an example, if **1 mL** of 2.5 mg/mL working solution is to be prepared, you can take **100 μL 25 mg/mL DMSO stock solution** and add to **900 μL corn oil**, mix well to obtain a clear or suspension solution (2.5 mg/mL, ready for use in animals). ▶ View More **Oral Formulations** **Oral Formulation 1:** Suspend in 0.5% CMC Na (carboxymethylcellulose sodium) **Oral Formulation 2:** Suspend in 0.5% Carboxymethyl cellulose Example: Take the **Oral Formulation 1** (Suspend in 0.5% CMC Na) as an example, if **100 mL** of 2.5 mg/mL working solution is to be prepared, you can first prepare 0.5% CMC Na solution by measuring **0.5 g CMC Na** and dissolve it in **100 mL ddH2O** to obtain a clear solution; then add 250 mg of the product to 100 mL 0.5% CMC Na solution, to make the suspension solution (2.5 mg/mL, ready for use in animals). ▶ View More **Note:** Please be aware that the above formulations are for reference only. InvivoChem strongly recommends customers to read literature methods/protocols carefully before

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	determining which formulation you should use for in vivo studies, as different compounds have different solubility properties and have to be formulated differently. (Please use freshly prepared in vivo formulations for optimal results.)

Preparing Stock Solutions	Solvent Volume / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5290 mL	12.6448 mL	25.2896 mL
	5 mM	0.5058 mL	2.5290 mL	5.0579 mL
	10 mM	0.2529 mL	1.2645 mL	2.5290 mL

***Note:** Please select an appropriate solvent for the preparation of stock solution based on your experiment needs. For most products, DMSO can be used for preparing stock solutions (e.g. 5 mM, 10 mM, or 20 mM concentration); some products with high aqueous solubility may be dissolved in water directly. Solubility information is available at the above Solubility Data section. Once the stock solution is prepared, aliquot it to routine usage volumes and store at -20°C or -80°C. Avoid repeated freeze and thaw cycles.

Biological Activity I Assay Protocols (From Reference)

Targets	IC50: 2.3 μM (inhibit IL-1β secreted by PMATHP-1 cells)[1]
References	[1].Discovery of NLRP3 inhibitors using machine learning: Identification of a hit compound to treat NLRP3 activation-driven diseases. Eur J Med Chem. 2023 Nov 15;260:115784.

These protocols are for reference only. InvivoChem does not independently validate these methods.