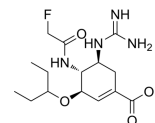


## Product Datasheet

Physicochemical Properties	
Product Name	AV-5080
Cat No.	V93070
Molecular Formula	C <sub>15</sub> H <sub>25</sub> FN <sub>4</sub> O <sub>4</sub>
Molecular Weight	344.38
CAS #	1448435-38-8
Appearance	Typically exists as solids at room temperature
Hydrogen Bond Donor Count	4
Hydrogen Bond Acceptor Count	6
Rotatable Bond Count	8
Heavy Atom Count	24
Complexity	516
Defined Atom Stereocenter Count	3
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)	May dissolve in DMSO (in most cases), if not, try other solvents such as H <sub>2</sub> O, Ethanol, or DMF with a minute amount of products to avoid loss of samples
Solubility (In Vivo)	<p><b>Note:</b> Listed below are some common formulations that may be used to formulate products with low water solubility (e.g. &lt; 1 mg/mL), you may test these formulations using a minute amount of products to avoid loss of samples.</p> <p style="text-align: center;"><b>Injection Formulations</b> (e.g. IP/IV/IM/SC)</p> <p><b>Injection Formulation 1:</b> 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<sub>2</sub>O to obtain a clear solution.</p> <p><b>Injection Formulation 2:</b> DMSO : PEG300 □ Tween 80 : Saline = 10 : 40 : 5 : 45 (i.e. 100 μL DMSO → 400 μL PEG300 → 50 μL Tween 80 → 450 μL Saline)</p> <p><b>Injection Formulation 3:</b> DMSO : Corn oil = 10 : 90 (i.e. 100 μL DMSO → 900 μL Corn oil)            Example: Take the <b>Injection Formulation 3</b> (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 <b>100 μL 25 mg/mL DMSO stock solution</b> and add to <b>900 μL corn oil</b>, mix well to obtain a clear or suspension solution (2.5 mg/mL, ready for use in animals).</p> <p style="text-align: right;">▶ <a href="#">View More</a> ▼</p>

**Products are for research use only · Not for human or veterinary use**

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### 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 ddH<sub>2</sub>O** 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 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	Concentration	Solvent Volume / Mass		
		1 mg	5 mg	10 mg
	1 mM	2.9038 mL	14.5188 mL	29.0377 mL
	5 mM	0.5808 mL	2.9038 mL	5.8075 mL
	10 mM	0.2904 mL	1.4519 mL	2.9038 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 | Assay Protocols (From Reference)

#### References

[1]. Resistance profiles for the investigational neuraminidase inhibitor AV5080 in influenza A and B viruses. *Antiviral Res.* 2023 Sep;217:105701.

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

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