Product Datasheet

Physicochemical Properties

Product Name	Aluminum phosphate adjuvant (GMP)
Cat No.	V85365
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 determining which formulation you should use for in vivo studies, as different compounds have different solubility properties and have to be formulated differently.

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	(Please use freshly prepared in vivo formulations for optimal results.)

Biological Activity I Assay Protocols (From Reference)

References	[1].Research Progress of Aluminum Phosphate Adjuvants and Their Action Mechanisms. Pharmaceutics. 2023 Jun 17;15(6):1756.

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