

## Polyvinylpyrrolidone

## Chemical Properties

CAS No. :	9003-39-8
Formula:	(C <sub>6</sub> H <sub>9</sub> NO) <sub>n</sub>
Molecular Weight:	111.14
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	Polyvinylpyrrolidone (Polyvidone) used in human and veterinary medicine as an effective wound healing accelerator.
Targets(IC50)	Others
In vivo	Goldfishes treated with Polyvinylpyrrolidone (PVP) have significantly higher mucus weights at 25 h. Koi treated with salt and Polyvinylpyrrolidone (PVP) has significantly lower mucus weight at 1 and 25 h. Control koi has significantly higher mucus at 25 h. At the end of 2 weeks, [1].

## Solubility Information

Solubility	DMSO: 60 mg/mL (539.86 mM),Sonication is recommended. H <sub>2</sub> O: 50 mg/mL (449.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (9 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	8.9977 mL	44.9883 mL	89.9766 mL
5 mM	1.7995 mL	8.9977 mL	17.9953 mL
10 mM	0.8998 mL	4.4988 mL	8.9977 mL
50 mM	0.180 mL	0.8998 mL	1.7995 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Shivappa RB, et al. Laboratory evaluation of different formulations of Stress Coat? for slime production in goldfish (*Carassius auratus*) and koi (*Cyprinus carpio*). PeerJ. 2017 Sep 6;5:e3759.

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