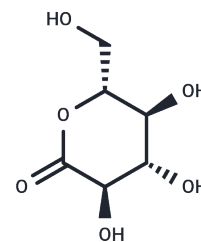


## D-(+)-Glucono-1,5-lactone

## Chemical Properties

CAS No. :	90-80-2
Formula:	C <sub>6</sub> H <sub>10</sub> O <sub>6</sub>
Molecular Weight:	178.14
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	D-(+)-Glucono-1,5-lactone (Gluconolactone) is a naturally occurring food additive used as a sequestrant, acidifier, curing agent, pickling agent, or leavening agent. It is a cyclic ester of D-gluconic acid and appears as a white, odorless crystalline powder.
Targets(IC50)	Reactive Oxygen Species, Endogenous Metabolite, ROS

## Solubility Information

Solubility	DMSO: 50 mg/mL (280.68 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: 2 mg/mL (11.23 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

	1mg	5mg	10mg
1 mM	5.6136 mL	28.0678 mL	56.1356 mL
5 mM	1.1227 mL	5.6136 mL	11.2271 mL
10 mM	0.5614 mL	2.8068 mL	5.6136 mL
50 mM	0.1123 mL	0.5614 mL	1.1227 mL

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

Pocker Y, Green E. J Am Chem Soc. 1973 Jan 10;95(1):113-9.

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