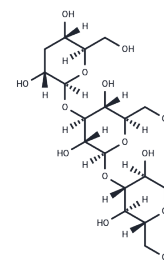


## D-Glucan

### Chemical Properties

CAS No. :	9012-72-0
Formula:	C <sub>18</sub> H <sub>32</sub> O <sub>14</sub>
Molecular Weight:	472.44
Storage:	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	D-Glucan is an orally active immune activator of the Dectin-1 receptor and possesses antioxidant properties (reduces TNF- $\alpha$ ). It activates macrophages and neutrophils, eliminates free radicals, inhibits oxidative stress and inflammatory responses, and enhances insulin sensitivity. Additionally, D-Glucan enhances the activity of the antioxidant enzyme glutathione, inhibits gluconeogenesis, and activates GK, promoting glycolysis. It is applicable in research on liver injury protection (antagonizing Acetaminophen toxicity), radiation protection (in synergy with vitamin E), and diabetes (improving glucose metabolism).
Targets(IC50)	TLR

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1167 mL	10.5834 mL	21.1667 mL
5 mM	0.4233 mL	2.1167 mL	4.2333 mL
10 mM	0.2117 mL	1.0583 mL	2.1167 mL
50 mM	0.0423 mL	0.2117 mL	0.4233 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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