

Product Name:	Zymosan A
Product Number:	Z001
CAS Number:	58856-93-2
Molecular Formula:	$(C_6H_{10}O_5)_x$
Molecular Weight:	Variable
Form:	Powder
Solubility:	Water: Insoluble
Source:	<i>Saccharomyces cerevisiae</i>
Storage Conditions:	2-8°C
Description:	Zymosan A is a polysaccharide compound found on the surface of various fungi. Zymosan A has been found to bind to TLR2, a surface membrane receptor responsible for recognizing bacterial, viral, and fungal substances. Zymosan A is insoluble in water.
Mechanism of Action:	Zymosan A binds to and stimulates TLR2 (Toll-like receptor 2), a surface protein responsible for recognizing foreign substances such as cell wall components in pathogenic bacteria. Upon stimulation, TLR2 initiates a signaling cascade which eventually leads to specific immune responses.
References:	Dillon, Stephanie. "Yeast Zymosan, a Stimulus for TLR2 and Dectin-1, Induces Regulatory Antigen-presenting Cells and Immunological Tolerance." <i>The Journal of Clinical Investigation</i> 116.4 (2006): 916-28. Ncbi.gov. Web. 17 Apr. 2013.