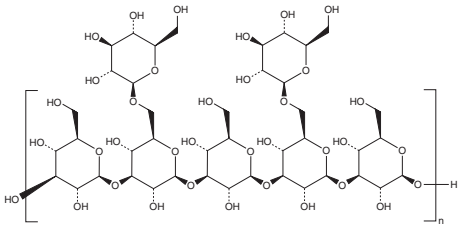
PRODUCT INFORMATION

Lentinan

Item No. 44856

CAS Registry No.: 37339-90-5
Formal Name: (2R,3R,4S,5R,6R)-4-(((2S,3R,4S,5R,6R)-4-(((2S,3R,4S,5R,6R)-4-(((2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)-6-((((2R,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)methyl)tetrahydro-2H-pyran-2-yl)oxy)-3,5-dihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)-3,5-dihydroxy-6-((((2R,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)methyl)tetrahydro-2H-pyran-2-yl)oxy)-6-(hydroxymethyl)tetrahydro-2H-pyran-2,3,5-triol
Synonym: LNT
MF: $(C_{42}H_{72}O_{35})_n$
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Item Origin: Synthetic



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Lentinan is supplied as a solid. Aqueous solutions of lentinan can be prepared by directly dissolving the solid in aqueous buffers. Lentinan is soluble (≥10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

Lentinan is a polysaccharide of variable molecular weight that has been found in *L. edodes*.[1,2] It contains β-glucan units that contain a main chain of five β-glucopyranosides linked *via* (1→3) glycosidic bonds with two (1→6)-β-glucopyranoside branches. The biological activities of lentinan are based on its molecular weight and conformation but can include anticancer, anti-inflammatory, and antiviral activities.

References

1. Zhang, Y., Li, S., Wang, X., *et al*. Advances in lentinan: Isolation, structure, chain conformation and bioactivities. *Food Hydrocolloids* **25**, 196-206 (2011).
2. Rao, Z., Dong, Y., Zheng, X., *et al*. Extraction, purification, bioactivities and prospect of lentinan: A review. *Biocatal. Agric. Biotechnol.* **37**, 102163 (2021).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 08/12/2026

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM