

Lignin

Cat. No.:	HY-111830		
CAS No.:	9005-53-2		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

Lignin

SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 50 mg/mL H ₂ O : < 0.1 mg/mL (insoluble) * "≥" means soluble, but saturation unknown.
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Lignin (Lignine) is a natural complex biopolymer with biodegradable and biocompatible. Lignin is the main component of plant cell walls and is a renewable aromatic polymer. Lignin has strongly antioxidant activity ^{[1][2]} .
In Vitro	Structurally, Lignin is a multifunctional natural phenolic polymer synthesized in the cell wall of all vascular plants by the free-radical coupling of three hydroxypropanoids of coumarinol, coniferol, and glucosinolate, and is a potential natural resistance oxidant ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Zhang T, et al. Short time hydrothermal treatment of poplar wood for production of lignin-derived polyphenol antioxidant. ChemSusChem. 2020 Mar 23.
- [2]. Falsini S, et al. A new method for the direct tracking of in vivo lignin nanocapsules in Eragrostis tef (Poaceae) tissues. Eur J Histochem. 2020 Mar 26;64(2).

Caution: Product has not been fully validated for medical applications. For research use only.

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