

## Data Sheet

<b>Product Name:</b>	Lignin
<b>Cat. No.:</b>	CS-0093040
<b>CAS No.:</b>	9005-53-2
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Solubility:</b>	DMSO : $\geq 50$ mg/mL; H <sub>2</sub> O : $< 0.1$ mg/mL (insoluble)

# Lignin

### BIOLOGICAL ACTIVITY:

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<sup>[1][2]</sup>. **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<sup>[1]</sup>.

### 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).

### CAIndexNames:

Lignine

### SMILES:

[Lignin]

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

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA