

β-D-Glucan

Chemical Properties

CAS No. : 9041-22-9

Formula:

Molecular Weight:

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	β-D-Glucan is a compound that targets tumor-associated macrophages with antitumor activity and modulates the immune response in necrotizing pancreatitis.
Targets(IC50)	Others
In vitro	Dissolving β-D-glucan in DMSO, but not in water, results in a concentration-dependent inhibition of MCF-7 cell proliferation, as determined by BrdU incorporation, with an IC50 of approximately 164 μg/mL. β-D-glucan, when dissolved in DMSO, inhibits the proliferation of tamoxifen/endocrine-resistant LCC9 and LY2 cells with IC50 values of 4.6 and 24.2 μg/mL, respectively.[3]

Solubility Information

Solubility	NaOH: 10 mg/mL,when pH is adjusted to 12 with 1 M NaOH. Sonication is recommended (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Su Y, et al. pH-sensitive PEG-coated hyper-branched β-d-glucan derivative as carrier for CpG oligodeoxynucleotide delivery. Carbohydr Polym. 2020 Oct 15;246:116621.

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