Alginic acid

Cat. No.:	HY-W127758	о́н
CAS No.:	9005-32-7	OH
Molecular Formula:	C ₁₈ H ₂₆ O ₁₉	HO OH O
Molecular Weight:	546.39	0 0,,,, 0 OH
Target:	Apoptosis; Autophagy; Histamine Receptor; Endogenous Metabolite	HO
Pathway:	Apoptosis; Autophagy; GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Metabolic Enzyme/Protease	
Storage:	Powder -20°C 3 years 4°C 2 years	∥ ≟ OH O OH
	In solvent -80°C 6 months -20°C 1 month	

SOLVENT & SOLUBILITY

Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.8302 mL	9.1510 mL	18.3019 mL
		5 mM	0.3660 mL	1.8302 mL	3.6604 mL
		10 mM			

BIOLOGICAL ACTIVITY		
Description	Alginic acid is a natural polysaccharide, which has been widely concerned and applied due to its excellent water solubility, film formation, biodegradability and biocompatibility. Alginic acid induces oxidative stress-mediated hormone secretion disorder, apoptosis and autophagy in mouse granulosa cells and ovaries. Alginic acid has an inhibitory effect on histamine release. Anti-anaphylactic and anti-inflammatory properties ^{[1][2][3]} .	
IC ₅₀ & Target	Human Endogenous Metabolite	
In Vitro	Alginic acid (AA) is a kind of polysaccharide extracted from brown seaweeds and has been widely used in food industry ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Guo X, et al. Structures, properties and application of alginic acid: A review. Int J Biol Macromol. 2020;162:618-628.



[2]. Cui J, et al. Alginic acid induces oxidative stress-mediated hormone secretion disorder, apoptosis and autophagy in mouse granulosa cells and ovaries. Toxicology. 2022;467:153099.

[3]. Jeong HJ, et al. Alginic acid has anti-anaphylactic effects and inhibits inflammatory cytokine expression via suppression of nuclear factor-kappaB activation. Clin Exp Allergy. 2006;36(6):785-794.

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

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