Data Sheet (Cat.No.T5004)

TargetMol

Hyaluronic acid sodium

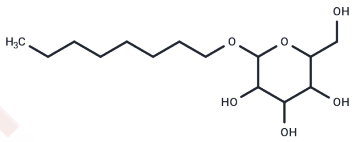
Chemical Properties

CAS No. : 9067-32-7

Formula: C14H28O6

Molecular Weight: 292.372

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Hyaluronic acid sodium (Sodium Hyaluronate) is an anionic, nonsulfated glycosaminoglycan distributed widely throughout connective, epithelial, and neural tissues. It is unique among glycosaminoglycans in that it is nonsulfated, forms in the plasma membrane instead of the Golgi, and can be very large, with its molecular weight often reaching the millions. One of the chief components of the extracellular matrix, hyaluronic acid contributes significantly to cell proliferation and migration, and may also be involved in the progression of some malignant tumors.
Targets(IC50)	Others,Akt,Endogenous Metabolite,Antibacterial,PI3K

Solubility Information

Solubility	DMSO: Slightly soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4203 mL	17.1016 mL	34.2032 mL
5 mM	0.6841 mL	3.4203 mL	6.8406 mL
10 mM	0.342 mL	1.7102 mL	3.4203 mL
50 mM	0.0684 mL	0.342 mL	0.6841 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wu RL, et al. Hyaluronic acid in digestive cancers. J Cancer Res Clin Oncol. 2017 Jan;143(1):1-16.
Lee H S, Myers C, Zaidel L, et al. Competitive Adsorption of Polyelectrolytes onto and into Pellicle-Coated Hydroxyapatite Investigated by QCM-D and Force Spectroscopy. ACS applied materials & interfaces. 2017, 9(15): 13079-13091.
Kogan G, et al. Hyaluronic acid: a natural biopolymer with a broad range of biomedical and industrial applications. Biotechnol Lett. 2007 Jan;29(1):17-25.
Salwowska NM, et al. Physiochemical properties and application of hyaluronic acid: a systematic review. J Cosmet Dermatol. 2016 Dec;15(4):520-526.
Lee H S, Myers C, Zaidel L, et al. Competitive Adsorption of Polyelectrolytes onto and into Pellicle-Coated Hydroxyapatite Investigated by QCM-D and Force Spectroscopy[J]. ACS applied materials & interfaces. 2017, 9(15): 13079-13091.