

Product Name:	Hyaluronic acid sodium
Product Number:	H014
CAS Number:	9067-32-7
Molecular Formula:	$(C_{14}H_{21}NaNO_{11})_n$
Molecular Weight:	≥ 2 MDa
Form:	powder
Appearance:	white powder
Solubility:	water soluble
Source:	synthetic
pH:	(0.5% in H ₂ O) 5.5-7.5
Storage Conditions:	-20 °C
Description:	<p>Hyaluronic acid sodium is the sodium salt form of Hyaluronic acid, an anionic 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.</p>
References:	<p>Donejko M et al (2015) Hyaluronic acid abrogates ethanol-dependent inhibition of collagen biosynthesis in cultured human fibroblasts. <i>Drug Des. Devel. Ther.</i> 9:6225-6233 PMID 26648698</p> <p>Gomes JAP, Amankwah R, Powell-Richards A, and Dua HS (2004) Sodium hyaluronate (hyaluronic acid) promotes migration of human corneal epithelial cells in vitro <i>B. J. Ophthalmol.</i> 2004;88:821-825</p> <p>Tan H, Chu CR, Payne KA and Marra KG (2009) Injectable in situ forming biodegradable chitosan-hyaluronic acid based hydrogels for cartilage tissue engineering. <i>Biomater.</i> 30(13):2499-2506</p>