

Product Data Sheet

Product Name: Potassium Hyaluronate from Cockscomb

Cat. No.: GD20392

Chemical Properties

Cas. No. 31799-91-4

Formula $(C_{14}H_{20}KNO_{11})_n$ M.Wt

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Potassium Hyaluronate from Cockscomb is a large molecule composed of repeated disaccharide units, which is used as a skin conditioner in cosmetics and can penetrate into the dermis layer [1]. Potassium Hyaluronate from Cockscomb has excellent viscoelasticity, high moisture retention capacity, high biocompatibility, and hygroscopic properties, which acts as a lubricant, shock absorber, joint structure stabilizer, and water balance- and flow resistance-regulator [2]. Potassium Hyaluronate from Cockscomb can be used as a drug delivery carrier to safely alter pharmacokinetics and efficiently transport drugs throughout the body [3]. Potassium Hyaluronate from Cockscomb can

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

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be utilized to develop artificial tears for promoting the healing of corneal epithelial wounds in mechanical scratch models^[4].

References:

- [1] Becker L C, Bergfeld W F, Belsito D V, et al. Final report of the safety assessment of hyaluronic acid, potassium hyaluronate, and sodium hyaluronate[J]. International journal of toxicology, 2009, 28(4_suppl): 5-67.
- [2] Gupta R C, Lall R, Srivastava A, et al. Hyaluronic acid: molecular mechanisms and therapeutic trajectory[J]. Frontiers in veterinary science, 2019, 6: 458280.
- [3] Price R D, Berry M G, Navsaria H A. Hyaluronic acid: the scientific and clinical evidence[J]. Journal of Plastic, Reconstructive & Aesthetic Surgery, 2007, 60(10): 1110-1119.
- [4] Ho W, Chiang T, Chang S W, et al. Enhanced corneal wound healing with hyaluronic acid and high-potassium artificial tears[J]. Clinical and Experimental Optometry, 2013, 96(6): 536-541.

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