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Heparan Sulfate Glycosaminoglycan Mimetic Nanopolymer Mouthwash

National Cancer Institute

Source

National Cancer Institute. *Heparan Sulfate Glycosaminoglycan Mimetic Nanopolymer Mouthwash*. NCI Thesaurus. Code C107161.

A nanopolymer-based mouthwash formulation containing a mimetic of the glycosaminoglycan (GAG) heparan sulfate, with potential anti-mucositis and protective activities. Upon rinsing with the mouthwash, GAGs bind to heparan sulfate binding sites on macromolecules within the extracellular matrix (ECM), which prevents the destruction of the ECM and protects both growth factors and cytokines from being degraded. By replacing the GAGs damaged by chemotherapy and/or radiation, this mouthwash may protect healthy tissue against the cytotoxic effects of chemotherapy and radiation and may prevent against radio-chemotherapy-induced mucositis.