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(54) Title: THERAPEUTIC DELIVERY SYSTEM COMPRISING A HIGH MOLECULAR WEIGHT PEG-LIKE COMPOUND

(57) Abstract: The present invention provides a system for delivering a wide range of chemical and biological therapeutics, including protein therapeutics, via transepithelial routes. The system comprises a high molecular weight polyethylene glycol-like (HMW PEG-like) compound for use with a therapeutic compound. Optionally, the system comprises a composition containing one or more HMW PEGlike compounds and one or more therapeutics, supplemented with a protective polymer such as dextran and/or essential pathogen nutrients such as L-glutamine. Administered alone, the HMW PEG-like compounds also provide therapeutic benefits. Also provided are methods for preventing or treating epithelial diseases, disorders, or conditions, such as an epithelium at risk of developing gut-derived sepsis attributable to an intestinal pathogen, as well as methods for monitoring the administration of HMW PEG-like compounds.



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