

Supplementary Materials: Spray Dried Formulation of Epicertin, a Recombinant Cholera Toxin B Subunit Variant that Induces Mucosal Healing

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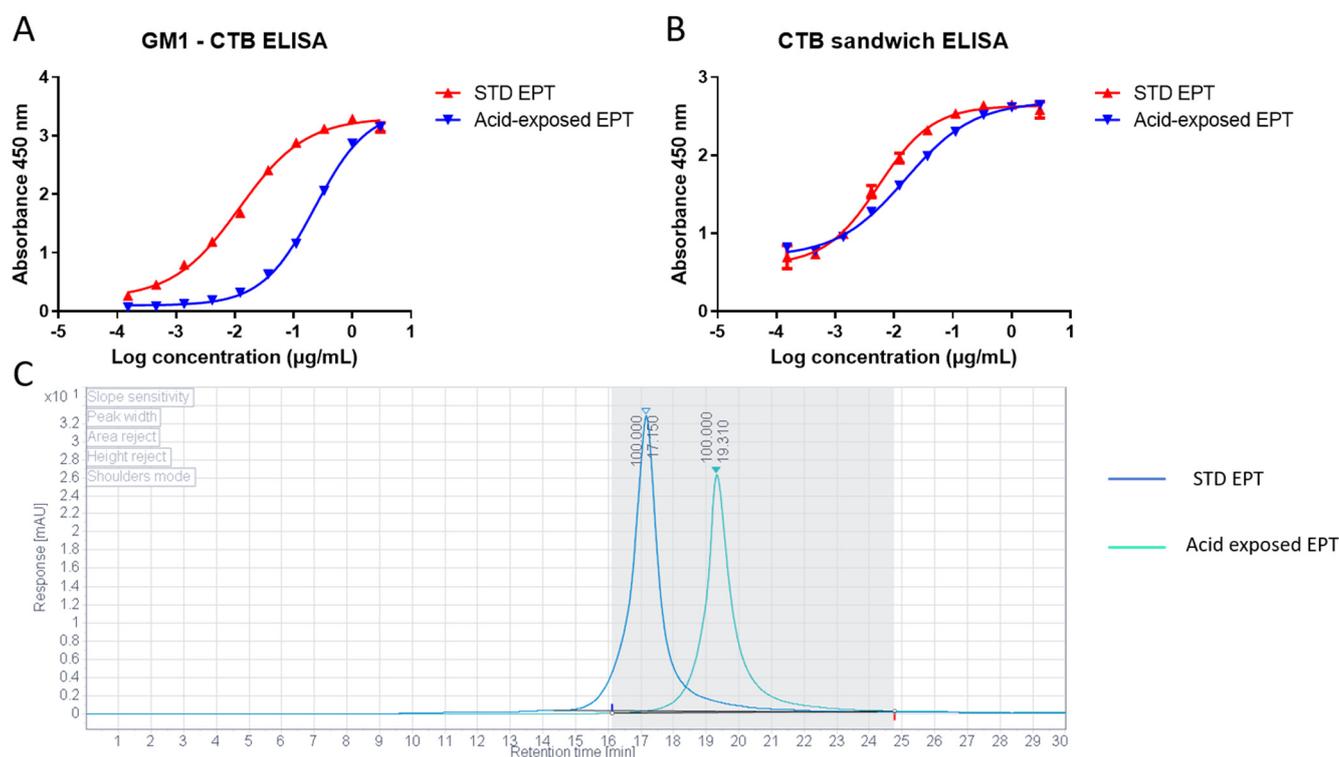


Figure S1. Evidence for EPT degradation at pH 1.0, These results demonstrate the need for a pH-dependent oral formulation of EPT. Top left: GM1-CTB ELISA. STD EPT in pentamer has a much higher EC₅₀ to GM1 than acid-exposed EPT which contains EPT in monomer form. Top right: CTB sandwich ELISA. STD EPT in pentamer form and acid exposed EPT monomer form can be detected in a similar manner demonstrating capacity to detect both GM1-binding pentamer and disassembled CTB molecular species. Bottom: Size Exclusion (SEC)-HPLC. STD EPT elutes in pentamer form at a 17.1 min retention time whereas acid exposed EPT elutes in monomer form at 19.3 min, whereby demonstrating acid dissociates pentamer EPT into monomer EPT.

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