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(54) Title: GLUCAGON-LIKE PEPTIDE 1(GLP-1) PHARMACEUTICAL FORMULATIONS

(57) Abstract: A composition is disclosed comprising glucagon- like peptide 1 (GLP-I) particles in combination with diketopiperazine (DKP) that is stable both in vitro and in vivo. The composition has utility as a pharmaceutical formulation for treating diseases such as diabetes, cancers, and obesity but is not limited to such diseases or conditions. In particularly, the composition has utility as a pharmaceutical formulation for pulmonary delivery.

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