GLUCAGON ANALOGS EXHIBITING ENHANCED SOLUBILITY IN PHYSIOLOGICAL PH BUFFERS

Abstract

Modified glucagon peptides are disclosed having improved solubility while retaining glucagon agonist activity. The glycogen peptides have been modified by substitution of native amino acids with, and/or addition of, charged amino acids to the carboxy terminus of the peptide. The modified glucagon agonists can be further modified by pegylation, or the addition of a carboxy terminal peptide selected from the group consisting of SEQ ID NO: 20, SEQ ID NO: 21, SEQ ID NO: 23, or both to further enhance the solubility of the glucagon agonist analogs.

Figure 3