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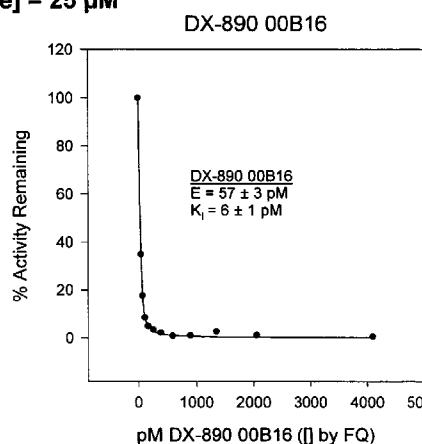
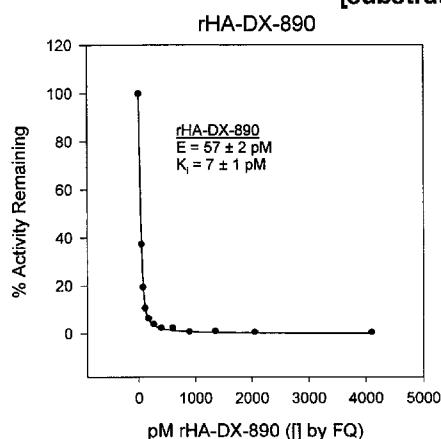
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(54) Title: ALBUMIN-FUSED KUNITZ DOMAIN PEPTIDES

rHA-DX-890 Batch 1743#09 K_i Determination**[HNE] = 100 pM**
[substrate] = 25 μ M

(57) **Abstract:** The invention relates to proteins comprising serine protease inhibiting peptides, such as Kunitz domain peptides (including, but not limited to, fragments and variants thereof) fused to albumin, or fragments or variants thereof. These fusion proteins are herein collectively referred to as "albumin fusion proteins of the invention." These fusion proteins exhibit extended shelf-life and/or extended or therapeutic activity in solution. The invention encompasses, therapeutic albumin fusion proteins, compositions, pharmaceutical compositions, formulations and kits. The invention also encompasses nucleic acid molecules encoding the albumin fusion proteins of the invention, as well as vectors containing these nucleic acids, host cells transformed with these nucleic acids and vectors, and methods of making the albumin fusion proteins of the invention using these nucleic acids, vectors, and/or host cells. The invention also relates to compositions and methods for inhibiting neutrophil elastase, kallikrein, and plasmin. The invention further relates to compositions and methods for treating cystic fibrosis and cancer.

**WO 03/066824 A2**



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