ENGINEERING OF DNASE ENZYMES FOR MANUFACTURING AND THERAPY

ABSTRACT

The present disclosure provides engineered human extracellular DNASE proteins *(e.g.*, variants of DNASE1 (D1), DNASE1-LIKE 1 (D1L1), DNASE1-LIKE 2 (D1L2), DNASE1-LIKE 3 Isoform 1 (D1L3), DNASE1-LIKE 3 Isoform 2 (D1L3-2), DNASE2A (D2A), and DNASE2B (D2B)) that are useful for treating conditions characterized by neutrophil extracellular trap (NET) accumulation and/or release. In accordance with the invention, the DNase variant has advantages for therapy and/or large-scale manufacturing.

FIG. 1