

The present invention relates to method for the production of recombinant muteins blood clotting factor VIII, utilizing an immortalized human cell line stably expressing viral transcription activator proteins and carrying a vector having a promoter functionally linked to a DNA sequence coding for a blood coagulating factor, provided that said promoter is not a viral promoter which is stimulated by said viral transcription activator proteins; an immortalized i human cell line carrying said vector; factor VIII muteins particularly suitable for the above production method; pharmaceutical compositions comprising such factor VIII muteins and the use of such factor VIII muteins for preparing a medicament for treating hemophilia.