

Title (en)
PRODUCTION OF MATURE PROTEINS IN PLANTS

Title (de)
HERSTELLUNG REIFER PROTEINE IN PFLANZEN

Title (fr)
PRODUCTION DE PROTEINES MATURES DANS DES PLANTES

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Application
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Abstract (en)
[origin: WO9836085A1] A method for producing one of the following proteins in transgenic monocot plant cells is disclosed: (i) mature, glycosylated alpha 1-antitrypsin (AAT) having the same N-terminal amino acid sequence as mature AAT produced in humans and a glycosylation pattern which increases serum half-life substantially over that of mature non-glycosylated AAT; (ii) mature, glycosylated antithrombin III (ATIII) having the same N-terminal amino acid sequence as mature ATIII produced in humans; (iii) mature human serum albumin (HSA) having the same N-terminal amino acid sequence as mature HSA produced in humans and having the folding pattern of native mature HSA as evidenced by its bilirubin-binding characteristics; and (iv) mature, active subtilisin BPN' (BPN') having the same N-terminal amino acid sequence as BPN' produced in Bacillus. Monocot plants cells are transformed with a chimeric gene which includes a DNA coding sequence encoding a fusion protein having an (i) N-terminal moiety corresponding to a rice alpha -amylase signal sequence peptide and, (iii) immediately adjacent the C-terminal amino acid of said peptide, a protein moiety corresponding to the mature protein to be produced.

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