

Title (en)

ENAMEL MATRIX DERIVATIVE-PROTEINS HAVING TISSUE GENERATING ACTIVITY

Title (de)

EMD-PROTEINE MIT GEWEBEGENERIERUNGSWIRKUNG

Title (fr)

PROTEINES DU DERIVE DE LA MATRICE D'ENAMEL AYANT UNE ACTIVITE DE GENERATION DES TISSUS

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Application

EP 10801674 A 20101221

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Abstract (en)

[origin: WO2011077086A2] The invention provides methods for inhibiting, effecting or stimulating the lineage-directed induction of stem cells, the methods comprising contacting the stem cells with a bioactive composition effective to inhibit or induce differentiation thereof into a lineage of choice, wherein the bioactive composition is any one of (a) a fraction of enamel matrix protein (EMP), wherein said fraction is either (i) Fraction C of EMP, wherein Fraction C is the fraction of EMP comprising components less than 6 kDa in size and being derived from the amelogenin gene by alternative splicing and post-translational modification, (n) Fraction C-dep of EMP, wherein Fraction C-dep is the fraction of EMP comprising components over 6 kDa in size and being derived from the amelogenin gene by alternative splicing and post-translational modifications, (b) an isolated peptide from said fraction, (c) an active portion or fragment of said peptide of (b), (d) a variant of (b) or (c) showing 70% or greater identity therewith, (e) a synthetic analog or derivative of any of the peptides (b)-(d), and wherein the lineage is selected from the group consisting of osteogenic, chondrogenic, angiogenic, and neurogenic Also provided are particular peptides and fragments having one or more of the relevant activities, and relates methods and compositions.

IPC 8 full level

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