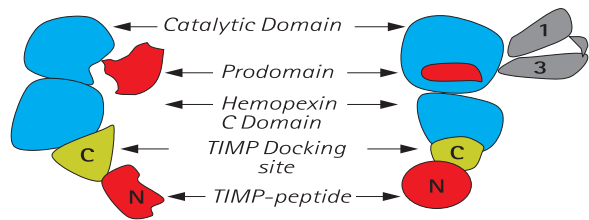


TIMP PEPTIDE

MMP INHIBITOR

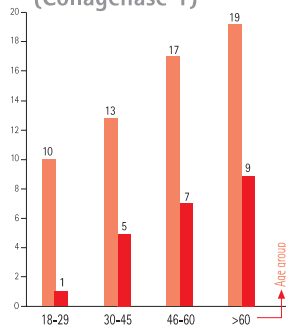
Endogenous Metalloproteinase TIMP inhibitors

- We design a synthetic peptide based on the "drug discovery".
- TIMP-peptide has a matrix metalloproteinase inhibitor capability.
- Design based on the sequence of the collagen substrate cleavage site.
- The most important structural requirement of an MMP inhibitor is a zinc binding group (ZBG) capable of chelating the active-site zinc ion.

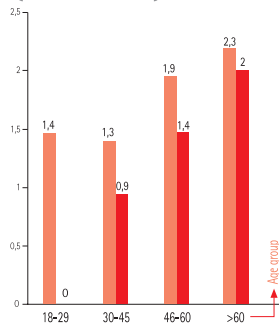


Efficacy test

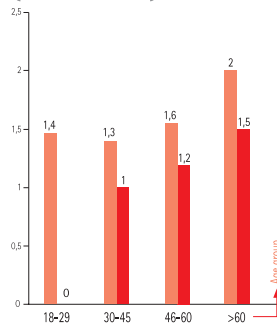
MMP1 inhibition (Collagenase 1)



MMP2 inhibition (Gelatinase A)



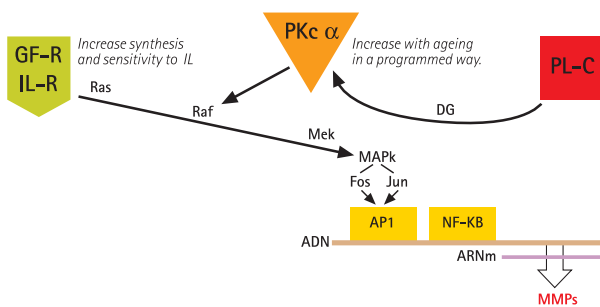
MMP9 inhibition (Gelatinase B)



Legend:
■ Untreated
■ TIMP-peptide treatment

Chronological ageing

Regulation mechanism



Photoaging

