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Title: Carboxymethyl chitosan represses tumor angiogenesis  
*in vitro* and *in vivo*

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- 1 Carboxymethyl chitosan (CMCS) was non-cytotoxic on HUVECs.
- 2 Treatment with CMCS significantly inhibited the migration of HUVECs.
- 3 CMCS significantly inhibited tumor growth and CD34 expression of H22 *in vivo*.
- 4 CMCS could regulate the levels of VEGF and TIMP-1 in serum of mice.
- 5 The anti-angiogenesis function may contribute to the anti-tumor effects of CMCS.
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