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The invention relates to the synthesis of polyoxometalate complex compounds possessing antitumor activity.

Summary of the invention consists in the synthesis of polyoxometalate complex compounds of formula:

$[N(CH_3)_4]_{5+n}[Se_2W_{19-n}V_{3+n}O_{71}] \cdot mH_2O$, where $n=0$ or 2 , $m=12$ or 17 , where selenium atoms (IV) are central.

The result of the invention consists in the synthesis of polyoxometalate complex compounds possessing 85...92% inhibiting effect of the tumor cells at a concentration of 10...100 μM .