

# MST1

**Macrophage stimulating protein** (MSP), also known as **hepatocyte growth factor like protein** (HLP, HGFL, or HGFLP), is a protein that in humans is encoded by the MST1 (macrophage-stimulating 1) gene.

Guo et al. showed that **Transforming growth factor Beta** induced the downregulation of **MST1** expression in U87 and U251 glioma cells. Treatment of glioma cells with the DNA methylation inhibitor **Decitabine** (5-aza-2'-deoxycytidine 5-AzaC) prevented the loss of MST1 expression. Addition of 5-AzaC also reduced the TGF- $\beta$ -stimulated proliferation, migration and invasiveness of glioma cells. Furthermore, Knockdown of **DNMT1** upregulated MST1 expression in gliomas cells. In addition, the inhibition of DNMT1 blocked TGF- $\beta$ -induced proliferation, migration and invasiveness in glioma cells. These results suggest that TGF- $\beta$  promotes glioma malignancy through DNMT1-mediated loss of MST1 expression <sup>1)</sup>.

<sup>1)</sup>

Guo Z, Li G, Bian E, Ma CC, Wan J, Zhao B. TGF- $\beta$ -mediated repression of MST1 by DNMT1 promotes glioma malignancy. Biomed Pharmacother. 2017 Aug 9;94:774-780. doi: 10.1016/j.biopha.2017.07.081. [Epub ahead of print] PubMed PMID: 28802229.

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