

Abstract

Membrane Type 1 Matrix Metalloproteinase (MT1-MMP) is an enzyme with critical role in cancer cells invasiveness. In this work we aimed to investigate interaction partners of MT1-MMP to broaden our understanding of the processes the enzyme takes an active part in. We have modified sequences of the metalloproteinase and its mutant variants with Strep/FLAG-tags insertion to allow for affinity purification and subsequent analysis of isolated potential interactors via mass spectrometry. Our preliminary data suggest that desmoglein-2 (DSG2) potentially binds MT1-MMP in human cells. Here we tried to verify the supposed interaction using coimmunoprecipitation assays.