

Description of Additional Supplementary Files

Supplementary Data 1: Proteins interacting with the human NEU1 protein were identified by the immunoprecipitation-mass spectrometry (IP-MS). HK-2 cells were stimulated with TGF β for 24 h. The cells were lysed and immunoprecipitated with anti-IgG or anti-NEU1 antibody. The immunoprecipitant protein was then subjected to liquid chromatography with tandem mass spectrometry for proteomics analysis. LFQ, label-free quantification.

Supplementary Data 2: Screening of NEU1-bound compounds by SPR

The compounds 1-21 are polysaccharides extracted by Wang Peipei's research group, and the compounds 22-74 are commercial small-molecule compounds. The structure of small molecule compounds was shown. K_d, dissociation constant.