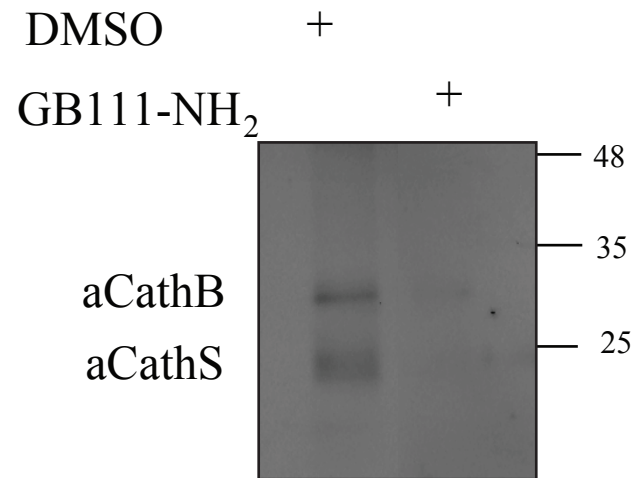


Supplementary Data 2.

Synovial Fluid labeled with GB123



Supplementary Data 2.

Five μL of OA synovial fluid were diluted in acetate buffer 1:1 and passed through a syringe with needles 21G, 27G, 30G. Samples were then filtered through a 50kDa cutoff amicon and spun at 14000g at 18^oC for 30min. Samples were treated with DMSO vehicle or 10 μM GB111-NH₂ cathepsin inhibitor (34), for an hour at 37^oC. After pretreatment, the samples were labeled with 5 μM GB123 for one hour at 37^oC. Reaction was stopped by adding 4 x sample buffer and boiled for 10 min. Samples were separated on a 12.5 % SDS PAGE and scanned for Cy5 fluorescence with a Typhoon scanner.