Tissue Protein Extraction Buffer (1X Hepes based Buffer, pH 7.5) For Immunoprecipitation and Western blot

Protocol (All solutions should be kept on ice. The protocol below is scalable).

- 1. Pulverize frozen tissue and remove approximately 90 μ l of tissue. Place tissue in a 1.5 ml round bottom microcentrifuge tube.
- 2. Add general phosphatase and protease inhibitor cocktails to approximately 500 μ l of ice-cold Tissue Protein Extraction Buffer.
- 3. Add the 500 μ l of Tissue Protein Extraction Buffer with inhibitors to the pulverized tissue.
- 4. Homogenize tissue with a mini pestle-homogenizer using 15 strokes, 3 seconds/stroke on ice.
- 5. Centrifuge 12000g for 15 min at 4°C.
- 6. Remove supernatant (without lipid layer) and transfer into another 1.5 ml tube.
- 7. Centrifuge again at 12000g for 15 min at 4°C.
- 8. Transfer supernatant to another tube. This supernatant fraction contains the extracted proteins.
- 9. The Bradford assay can be used to measure the extracted protein concentration.

Safety. Contains irritants. Avoid ingestion and contact.

Storage. Aliquot, -20°C