



*Suggestions or questions to:
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Sulfinpyrazone for enhancing imaging of anionic intracellular indicators

Sulfinpyrazone is used to inhibit leakage and redistribution of anionic intracellular indicators brought about by the cellular transporter that removes organic anions from the cytoplasm. Both sulfinpyrazone and probenecid, which has similar effects, are competitive inhibitors of this transporter. Both can be purchased from Sigma.

Stocks of these compounds are made by slowly dissolving them in water at a basic pH (10-11) with heat. Once the compound has FULLY dissolved, the pH can be re-adjusted to ~8.5. Sulfinpyrazone stocks are 10mM and probenecid stocks are 50-100mM. Sulfinpyrazone should be used at a final concentration of 250uM, while probenecid should be used at 2.5mM.

For imaging calcium dyes, either Sulfinpyrazone or probenecid should be introduced into loading AND imaging buffers.