

## Instruction for Addition of Biliverdin

(Details in the Science paper)

- *Cultured Cells*
  - 1) Prepare 25mM biliverdin in DMSO.
  - 2) 24 hours after transfection, add appropriate amount of 25mM biliverdin for a final concentration of 25uM (1000X dilution).
  - 3) Incubate overnight, and remove biliverdin-containing media before imaging.
- *Mouse Liver Imaging*
  - 1) IV injection of IFP-labeled adenovirus serotype 5 (Ad5)
  - 2) Approximately 5 days later image mouse.
  - 3) 1 hour before imaging, IV inject 250 nmole biliverdin.

Note: Biliverdin we used was ordered from Toronto Research Chemicals (Catalog #: B386400).

Frontier Scientific sells biliverdin hydrochloride (Catalog # B655-9), which is 40 times cheaper and in principle it should also work, but not yet tested by us.