

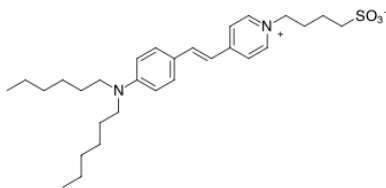
ProteOrange Protein Gel Stain, 5000x

<http://www.lumiprobe.com/p/proteorange-sypro-orange>

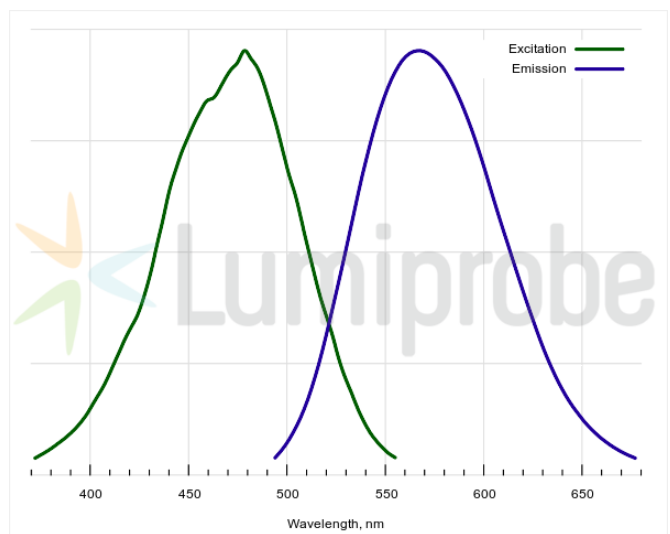
ProteOrange is a protein-binding dye for staining of protein gels, an analog of SYPRO Orange. The fluorophore is a styrene-like zwitterionic dye. It binds proteins selectively in the presence of nucleic acids, polysaccharides, and other molecules. It is also tolerant to SDS, and therefore can be used for SDS-PAGE gel staining. The dye interacts with the SDS coat around proteins in the gel, so it gives more consistent staining between different types of proteins compared to CBB staining, and never exhibits negative staining. It also stains glycoproteins well.

Staining with ProteOrange is about an order of magnitude more sensitive than Coumassie dye staining, and allows to detect about 3 ng of protein per band (30 ng is detection limit for Coumassie).

ProteOrange is supplied as a 5000x solution in DMSO. 1 mL of the solution is enough for the staining of around 200 minigels.



Structure of ProteOrange (SYPRO Orange)



Excitation and emission spectra of ProteOrange complex with protein and SDS

General properties

Appearance: orange solution
Storage conditions: Storage: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation/absorption maximum, nm: 470
Emission maximum, nm: 570