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ProteOrange® Protein Quantification Reagent, 500×

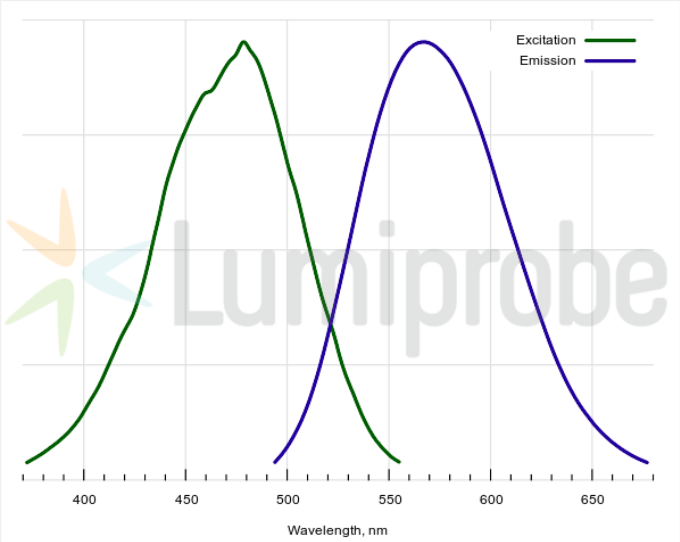
http://www.lumiprobe.com/p/orange-protein-quantitation-reagent-500x

ProteOrange® is a fluorescent protein-sensitive dye that exhibits almost no fluorescence in the free form but fluoresces upon binding to proteins. The excitation maximum of ProteOrange in the complex with protein is at ~485 nm, the emission maximum — at ~590 nm.

The unique structure of the ProteOrange reagent allows accurate detection of proteins in solutions with concentrations between 10 ng/mL and 10 µg/mL. This level of sensitivity is considerably better than that achieved with the BCA method, Bradford assay, Lowry assay, or absorption measurements at 280 nm. The dye shows minimal variability for different proteins.

The ProteOrange dye has a low tolerance to non-ionic detergents. It is not recommended for cell lysates containing Triton X-100 and sodium deoxycholate, but it can tolerate up to 0.01% SDS (in final concentration).

This reagent is a 500× concentrate of ProteOrange dye. This product is a component of ProteOrange Protein Quantification Kit.



Excitation and emission spectra of ProteOrange complex with protein

General properties

Appearance:	Orange solution
Storage conditions:	Storage: 24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

Spectral properties

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