

## Ribo488 RNA Quantification Reagent

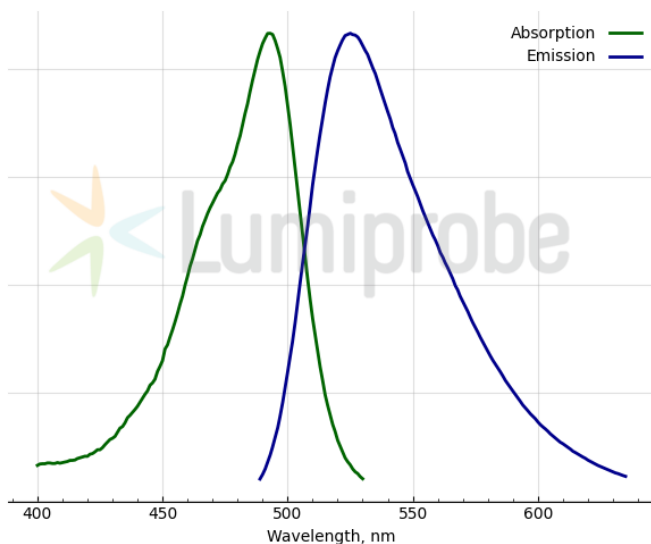
<http://www.lumiprobe.com/p/ribo488-quantification>

Ribo488 RNA Quantification Reagent is an ultra-sensitive dye. It enables the detection of the RNA/dye complex fluorescence with high selectivity and in a wide range of RNA concentrations with a linear dependence. Ribo488 RNA dye exhibits bright green fluorescence when binding to nucleic acids, with excitation/emission peaks at 500 and 525 nm, respectively.

Fluorescence staining of RNA with Ribo488 can be used in applications that require RNA preparation for microarray samples, real-time reverse transcription PCR (RT-PCR) assays, differential display PCR, Northern blot, S1 nuclease assays, RNase protection assays, and to construct cDNA libraries.

Reagent is supplied as 400  $\mu$ M solution of dye in anhydrous dimethylsulfoxide (DMSO).

The DMSO stock solution should be stored at  $-20^{\circ}\text{C}$ . The working solution of the Ribo488 RNA Quantification Reagent must be protected from light, and be used within a few hours of its preparation.



**Absorption and emission spectra of Ribo488 RNA Quantification Reagent**

### General properties

Appearance:	orange solution
Quality control:	NMR $^1\text{H}$ , HPLC-MS (95%), functional testing
Storage conditions:	Storage: 24 months after receipt at $-20^{\circ}\text{C}$ in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.
Legal statement:	Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.

### Spectral properties

Excitation/absorption maximum, nm:	493
Emission maximum, nm:	525
Fluorescence quantum yield:	0.53