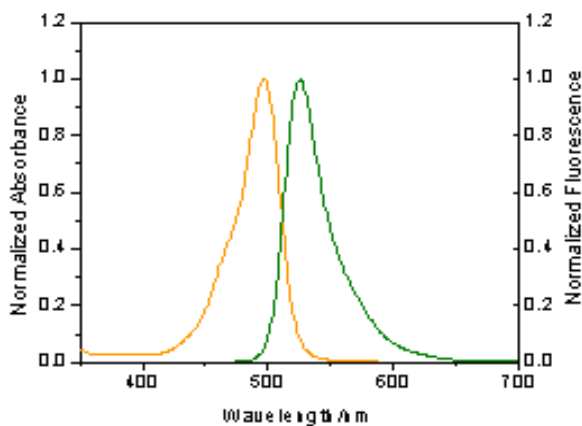




## Product Data Sheet

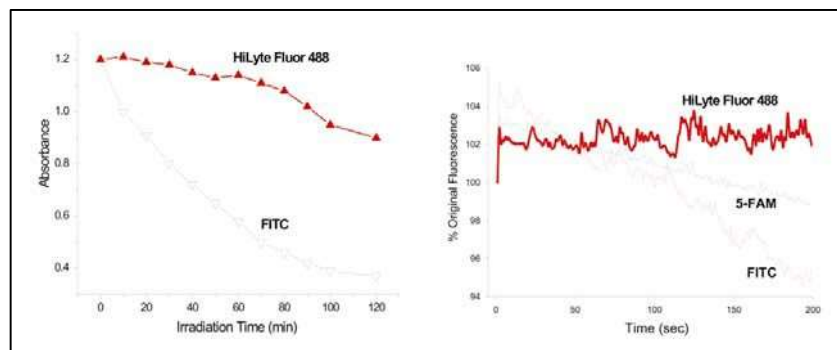
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|                      |                                                                                                                                                                                                                                                                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:        | HiLyte Fluor™ 488 hydrazide                                                                                                                                                                                                                                                                                                                             |
| Size:                | 1 mg                                                                                                                                                                                                                                                                                                                                                    |
| Catalog Number:      | AS-81163                                                                                                                                                                                                                                                                                                                                                |
| Molecular Weight:    | 388.38                                                                                                                                                                                                                                                                                                                                                  |
| Solvent:             | DMF or DMSO                                                                                                                                                                                                                                                                                                                                             |
| Product Description: | HiLyte Fluor™ 488 hydrazide is a carbonyl-reactive fluorescent labeling dye. It can be used for labeling glycoproteins such as HRP. Fluorescence of HiLyte Fluor™ 488 fluorophore is not pH dependent at pH range between 4 to 10. This pH insensitivity is a major improvement over fluorescein, which emits its maximum fluorescence only above pH 9. |
| Spectra:             | Maximum Ex/Em wavelength is 503/528 nm.                                                                                                                                                                                                                                                                                                                 |



**Photostability:**

HiLyte Fluor™ 488, 5-FAM and FITC photostability over time



**Stock Solution Preparation:**

Prepare 10 mg/ml dye stock solution in high quality anhydrous DMSO. Completely dissolve all dye content by vortexing. Dye solution should be prepared fresh, immediately before an experiment. Long-term storage in solution form may reduce dye activity. Any solution containing the dye should be protected from light.

**Shelf Life and Storage:**

Shelf life is two years if stored at -20C, desiccated and protected from light.

**Related Products:**

| Catalog #         | Product Name                      |
|-------------------|-----------------------------------|
| AS-81160          | HiLyte Fluor™ 488 acid            |
| AS-81161-1 (1 mg) | HiLyte Fluor™ 488 acid,SE         |
| AS-81161 (5 mg)   | HiLyte Fluor™ 488 acid,SE         |
| AS-81162          | HiLyte Fluor™ 488 amine, TFA salt |
| AS-81163          | HiLyte Fluor™ 488 hydrazide       |
| AS-81164          | HiLyte Fluor™ 488 C2 maleimide    |

This product is for *in vitro* research use only