

## Alexa Fluor<sup>®</sup> 488 Histone H1 (H-13188)

### Quick Facts

#### Storage upon receipt:

- -20°C
- Protect from light

**Note:** Avoid repeated freezing and thawing of solutions

tions. For instance, in yeast nuclear protein transport assays,<sup>2</sup> preliminary evidence shows transport of exogenously added Alexa Fluor 488 histone H1 to the nucleus. The Alexa Fluor 488 histone H1 may also be useful for studying nuclei in live cells in experiments similar to those described in the literature.<sup>3,4</sup> The Alexa Fluor 488 histone H1 can be visualized using standard fluorescein filters or instrument settings.

### Materials

The Alexa Fluor 488 histone H1 conjugate is supplied lyophilized in a unit size of 1 mg. Because the conjugate is lyophilized from 0.5 mL of phosphate-buffered saline (PBS), 6 mg of solid corresponds to 1 mg of conjugate. A 2 mg/mL stock solution can be prepared by adding 0.5 mL of deionized water directly to the vial. The lyophilized product should be stored desiccated at -20°C, protected from light. Stock solutions should be stored at 4°C with the addition of sodium azide to a final concentration of 2 mM. Alternatively, the solution can be divided into aliquots and stored frozen at -20°C. When stored properly, this product should remain stable for at least six months. **PROTECT FROM LIGHT. AVOID REPEATED FREEZING AND THAWING OF SOLUTIONS.**

### Introduction

Molecular Probes' fluorescent histone H1 conjugate is labeled with our superior new Alexa Fluor 488<sup>®</sup> dye (ex/em ~495/520 nm), which produces fluorescent conjugates that are brighter and much more photostable than those of fluorescein. To prepare the Alexa Fluor 488 histone H1 conjugate, we label the lysine-rich histone fraction isolated from calf thymus<sup>1</sup> and then remove free dye from the preparation. Although these conjugates are too new to have been extensively tested in biological assays, we expect that they will be useful for a number of different applica-

### References

1. Biochim Biophys Acta 62, 608 (1962);
2. J Cell Biol 123, 785 (1993);
3. J Cell Biol 109, 505 (1989);
4. BioTechniques 17, 730 (1994).

**Product List** Current prices may be obtained from our Web site or from our Customer Service Department.

Cat #	Product Name	Unit Size
H-13188	histone H1 from calf thymus, Alexa Fluor <sup>®</sup> 488 conjugate .....	1 mg

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## Contact Information

Further information on Molecular Probes' products, including product bibliographies, is available from your local distributor or directly from Molecular Probes. Customers in Europe, Africa and the Middle East should contact our office in Leiden, the Netherlands. All others should contact our Technical Assistance Department in Eugene, Oregon.

Please visit our Web site — [www.probes.com](http://www.probes.com) — for the most up-to-date information

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