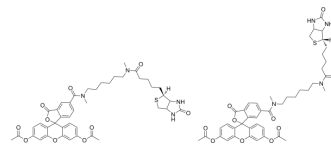


## Flubida-2

<b>Cat. No.:</b>	HY-D1688
<b>Molecular Formula:</b>	C <sub>86</sub> H <sub>96</sub> N <sub>8</sub> O <sub>20</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	812.93
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Flubida-2 is a cell permeable dye which can be hydrolyzed to Fubi-2 by endoesterases in cells (after hydrolysis, Ex=492 nm, Em=517 nm). Flubida-2 can be used to detect pH at a specific site in a cell organelle by directing the probe to where avidin fusion proteins are located <sup>[1]</sup> .
<b>In Vitro</b>	<p>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs)<sup>[1]</sup>.</p> <ol style="list-style-type: none"> <li>1. Dissolve Flubida-2 in DMSO (approximately 2 mM).</li> <li>2. Mix the stock solution 1: 1 with 20% (w/v in DMSO) Pluronic F-127 (Molecular Probes), and dilute to the desired final concentration (2-4 μM) with serum-free DMEM.</li> <li>3. 30 to 48 h post-transfection with either AV-KDEL or ST-AV DNA, HeLa cells are rinsed once with serum-free DMEM and loaded with 2-4 μM Flubida-2 for 3-5 h (or overnight for 10-15 h).</li> <li>4. Chase the labeled cells with normal growth medium for at least 2 h, to allow excess dye-biotin to exit from the cytosol.</li> <li>5. The strong avidin-biotin interaction ensures stable, specific avidin-Flubi- binding that resisted washing. Biotin starvation of the cells is not necessary before Flubida- loading, as staining was bright and stable.</li> </ol> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. M M Wu, et al. Studying organelle physiology with fusion protein-targeted avidin and fluorescent biotin conjugates. *Methods Enzymol.* 2000;327:546-64.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA