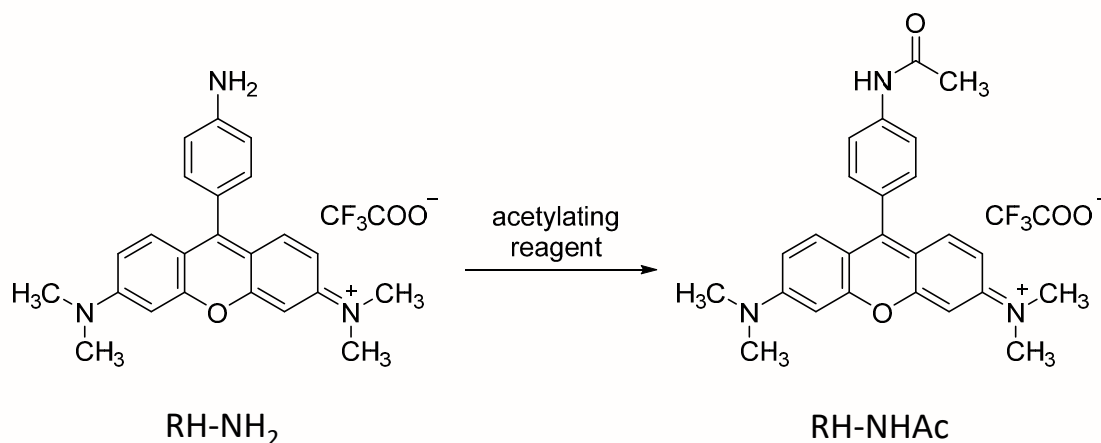


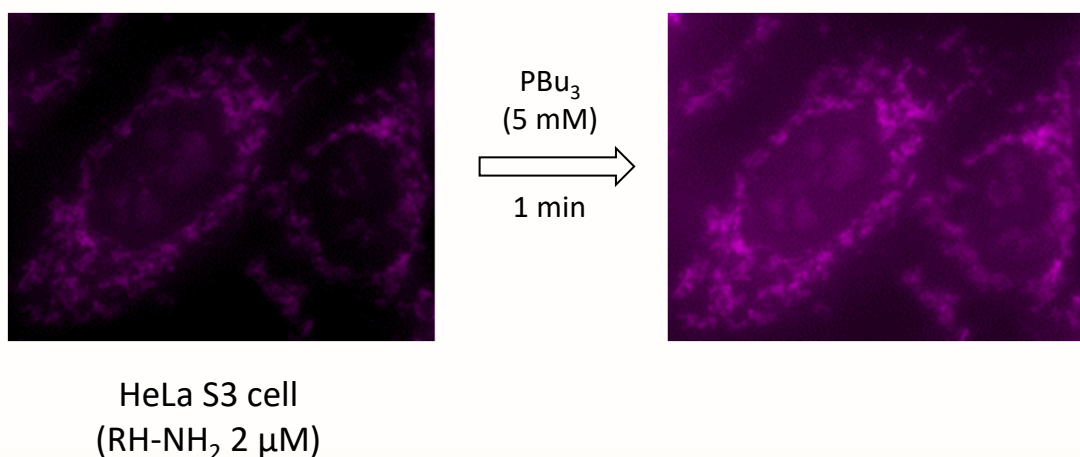
Fluorescent
Probes

RH-NH₂

Acetyl CoA plays a central role in energy metabolism. When energy is obtained from the breakdown of carbohydrates, amino acids, and lipids, it is mostly oxidized as acetyl CoA in the TCA circuit. RH-NH₂ has a tetramethylrhodamine backbone, which is known to localize to mitochondria, and acetylation of the amino group increases the fluorescence. The fluorescence intensity increases when the amino group is acetylated (fluorescence quantum yield in PBS buffer (1% DMSO): RH-NH₂ 4.9×10^{-4} , RH-NHAc 0.12).



When HeLa S3 cells are treated with RH-NH₂ (2 μM), they emit weak fluorescence induced by acetyl CoA localized in mitochondria, as shown below, and when the accelerator tributylphosphine (PBu₃) is added, the fluorescence intensity increases within 1 minute.



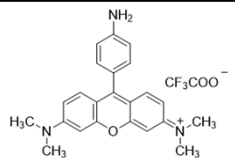
Feature

- Acetyl CoA in cells can be visualized.
- 1 mg package for easy use in assays

<Reference>

Komatsu, H. *et al.* : *Chem. Commun.*, **49**, 2876 (2013).

Product List

Code No.	Product Name	Structure	CAS RN [®]	Package Size
			Storage conditions	
181-03521	RH-NH ₂		1427006-06-1	1 mg
			Keep at -20 degrees C.	

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