



# Glucagon Yellow

**P024**  
**1  $\mu$ mol**

- **Known Property**      pancreatic alpha cell
- **Application**            Immunofluorescence
- **Cell selectivity mechanism:** POLD (glucagon)
- **Storage**
  - ① Delivery: Room Temperature
  - ② Dried compound: 4 °C or -20 °C
  - ③ Compound solution: 4 °C or -20 °C

## ORDER

- SenPro
- order@senprobe.com
- www.senprobe.com

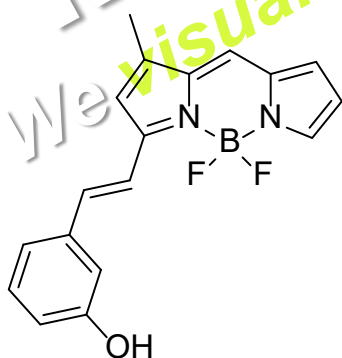
## General Use Guide

More than 1/100 dilution of 10mM of DMSO stock solution is essential

For biomedical use to avoid DMSO concentration higher than 1%.

Working concentrations for specific applications should be determined by the investigator.

It is recommended to use up the buffer diluted solution within one day. The compound may be decomposed or precipitated out from buffer solution.



Molecular Weight

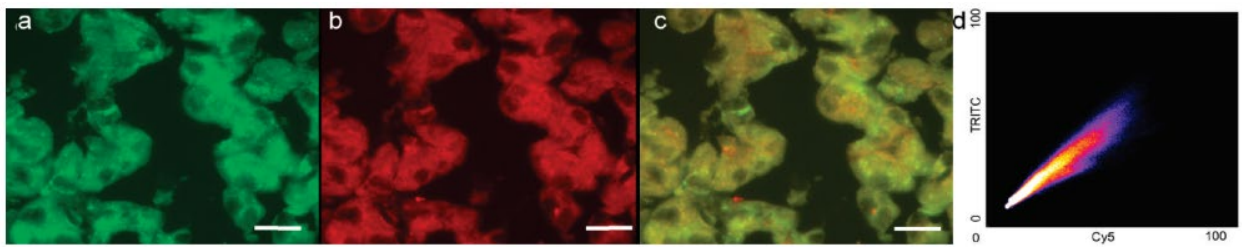
324.14 (C<sub>18</sub>H<sub>15</sub>BF<sub>2</sub>N<sub>2</sub>O)

$\lambda_{ex} / \lambda_{em}$

550 / 568 nm

553 / 570 nm with 200 mM of glucagon

**Glucagon yellow** is a pancreatic alpha cell selective probe over beta cell. **Glucagon yellow** showed dose dependent fluorescence increase upon treatment of glucagon with slight red shift. In pancreatic tissue, **Glucagon yellow** showed a good correlation with glucagon antibody, but low correlation with insulin antibody



Fluorescence colocalization images of **Glucagon Yellow** in pancreas tissue. Fluorescence microscope images of **Glucagon Yellow** (a: TRITC channel), glucagon antibody (b: Cy5 channel), insulin antibody (f: Cy5 channel) and merged images (c for a plus b, g for e plus f). Colocalization scatter plot (d: Pearson's coefficient 0.950, h: Pearson's coefficient 0.681). Scale bar 20 μm.

- Related probes: TP-alpha

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## Reference

1. **Synthesis of a bodipy library and its application to the development of live cell glucagon imaging probe**, Lee, J. S.; Kang, N. Y.; Kim, Y. K.; Samanta, A.; Feng, S.; Kim, H. K.; Vendrell, M.; Park, J. H.; Chang, Y. T.\* J. Am. Chem. Soc. 2009, 131, 10077-10082.