PiY
P025
1 μmol

■ **Known Property** pancreatic beta cell probe

■ **Application** Immunofluorescence and visualization of islets in pancreatic tissue by i.v. injection of mouse

■ **Cell selectivity mechanism**: Unknown

■ **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
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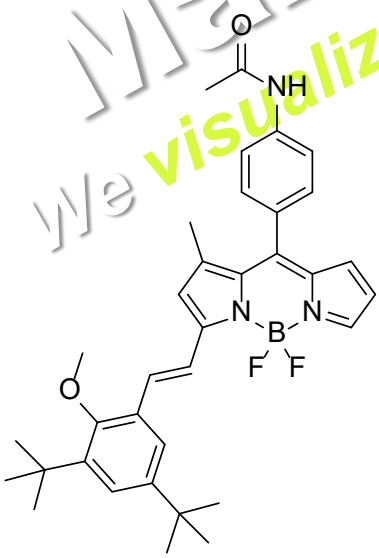
■ General Use Guide

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

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

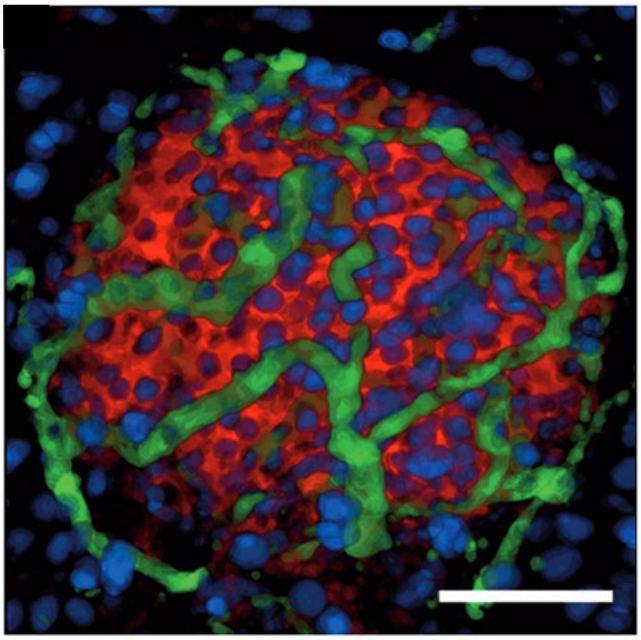
Working concentrations for specific applications should be determined by the investigator.

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	583.53 ($C_{35}H_{40}BF_2N_3O_2$)
λ_{ex} / λ_{em}	558 / 585 nm

PiY (Pancreatic islet Yellow) is a pancreatic beta cell selective probe over alpha cell or acinar cell. Through i.v. injection of **PiY** into mouse tale vein, pancreatic islet was vividly visualized to facilitate the islet isolation



3D structure processed image of a pancreatic islet. The fluorescent images of PiY(red) and FITC-dextran (green) were taken using TRITC and FITC channels, respectively. DAPI(blue) stain shows nuclei. Scale bar=50μm

- Related probes: TP-beta, PiF

Reference

1. **Visualization and isolation of Langerhans islets by fluorescent probe PiY**, Kang, N. Y.; Lee, S. C.; Park, S. J.; Ha, H. H.; Yun, S. W.; Kostromina, E.; Gustavsson, N.; Ali, Y.; Chandran, Y.; Chun, H. S.; Bae, M. A.; Ahn, J. H.; Han, W.; Radda, G. K.; Chang, Y. T.* Angew. Chem., Int. Ed. Engl., 2013, 52, 8557-8560.