

# FHZ

**Catalog No: tcsc0035389**



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 25mg



## Specifications

**CAS No:**

1883737-63-0

**Formula:**

$C_{26}H_{26}N_2O_7$

**Pathway:**

Others

**Target:**

Others

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

478.49

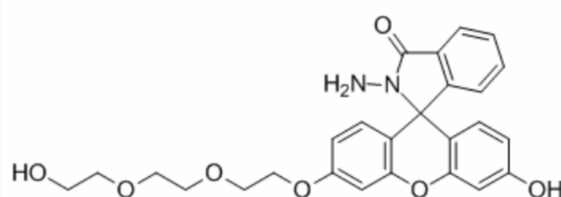
## Product Description

FHZ is a fluorescent probe.

**In Vitro:** After loaded with probe FHZ and treated with HClO and  $H_2O_2$ /EDTA- $Fe^{2+}$  in order, HeLa cells display the bright

fluorescences from both cyan and green channels. FHZ can give out two different fluorescent signals in the presence of both  $\bullet\text{OH}$  and  $\text{HClO}$ , suggesting the synchronous discrimination of  $\bullet\text{OH}$  and  $\text{HClO}$  by a dual-channel detection model with two exciting wavelengths. Probe FHZ shows very high specificity to the detections of  $\bullet\text{OH}$  and  $\text{HClO}$  with the excitations at 410 and 490 nm, respectively. The probe FHZ can efficiently enter the cellular mitochondria and exhibit the differentiable/visual capabilities to the endogenous  $\bullet\text{OH}$  and  $\text{HClO}$  by the dual fluorescent responses<sup>[1]</sup>.

**In Vivo:** Probe FHZ can rapidly be absorbed into the blood circulation system from the zebrafish intestine, and spread out whole zebrafish tissues, and keep its stability in the blood, organs and tissues in the absence of ROS. The probe can keep its stability in biological environments and only selectively react with  $\bullet\text{OH}$  and  $\text{HClO}$  species<sup>[1]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!