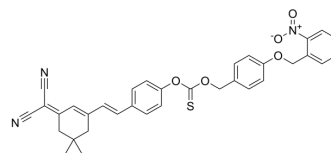


## PRO-F

Cat. No.:	HY-149837
Molecular Formula:	C <sub>34</sub> H <sub>29</sub> N <sub>3</sub> O <sub>5</sub> S
Molecular Weight:	591.68
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

Description	PRO-F is a photoactivable H <sub>2</sub> S donor with ROS scavenging ability. PRO-F can be activated by light to produce fluorescent signal, for real-time tracking of released H <sub>2</sub> S. PRO-F activation doesn't consume endogenous substances. deliver H <sub>2</sub> S in an intracellular environment to protect cells from excessive reactive oxygen species (ROS) induced damage. PRO-F shows enhancement on chronic wound healing, researched in diabetic models as well <sup>[1]</sup> .
In Vitro	<p>PRO-F (20 μM; 0-500s) can be activated by light activation (365 nm) time-dependently, λ<sub>ex</sub>=530 nm, λ<sub>em</sub>=676 nm<sup>[1]</sup>.</p> <p>PRO-F (20 μM; 5 min, 10 min, 15 min) produces red fluorescent signal in NDF and HaCaT cells<sup>[1]</sup>.</p> <p>PRO-F (20 μM; 0-500 s) (365 nm) λ<sub>ex</sub>=530 nm λ<sub>em</sub>=676 nm<sup>[1]</sup></p> <p>PRO-F (20 μM 5 10 15 ) NDF HaCaT <sup>[1]</sup></p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

## REFERENCES

[1]. Yuan F, et al. Photoactivated Hydrogen Sulfide Donor with a Near-Infrared Fluorescence Report System for Accelerated Chronic Wound Healing. Anal Chem. 2023 May 2;95(17):6931-6939.

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

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