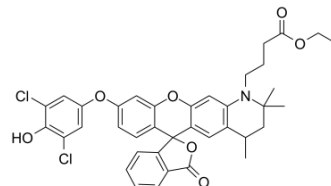


HKOCl-4

Cat. No.:	HY-130027
CAS No.:	2031170-85-9
Molecular Formula:	C ₃₈ H ₃₅ Cl ₂ NO ₇
Molecular Weight:	688.59
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HKOCl-4 (BXY2142) is a rhodol-based yellow fluorescent probe for the detection of hypochlorous acid with excellent sensitivity and selectivity ^[1] . HKOCl-4 has longer absorption wavelength and better pH stability compared with fluorescein-based probes. E _x : 530 nm; E _m 557 nm.
IC₅₀ & Target	E _x : 530 nm; E _m 557 nm
In Vitro	<p>HKOCl-4 (10 μM) shows an increasing fluorescence intensity with increasing concentration of hypochlorous acid^[1]. HKOCl-4 exhibits a ultra-fast response towards 1 equiv of HOCl (reached a plateau within 2 min) , and it shows a >20-fold increase in fluorescence intensity over other analytes (1 equiv of •OH and ONOO⁻ as well as 10 equiv of O₂, NO, 1O₂, ROO•, TBHP and H₂O₂)^[2].</p> <p>HKOCl-4 is first tested and it was proven to be non-toxic in living cells even at a concentration up to 50 μM in RAW264.7 macrophages^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Dan Yang, et al. Diarylether-based fluorogenic probes for detection of hypochlorous acid or hydroxyl radical. Patent US20160312033.

[2]. Xiaoyu Bai, et al. HKOCl-4: a rhodol-based yellow fluorescent probe for the detection of hypochlorous acid in living cells and tissues.

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

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