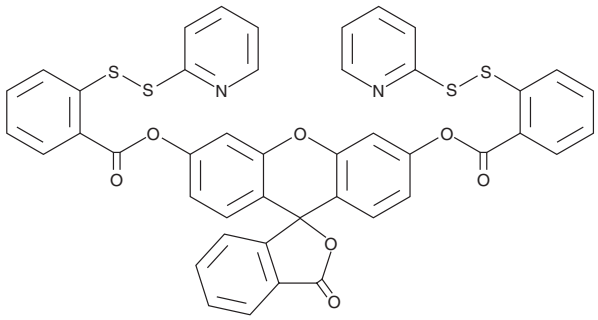
PRODUCT INFORMATION

WSP-5

Item No. 16929

CAS Registry No.:	1593024-78-2
Formal Name:	3-oxo-3H-spiro[isobenzofuran-1,9'-xanthene]-3',6'-diyl *bis*(2-(pyridin-2-yldisulfanyl)benzoate)
Synonym:	Washington State Probe-5
MF:	$C_{44}H_{26}N_2O_7S_4$
FW:	822.9
Purity:	≥95%
UV/Vis.:	λ_{max}: 225 nm
Ex./Em. Max:	502/525 nm, respectively
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

WSP-5 is supplied as a crystalline solid. A stock solution may be made by dissolving the WSP-5 in the solvent of choice. WSP-5 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of WSP-5 in these solvents is approximately 25 and 30 mg/ml.

Description

WSP-5 is a turn-on fluorescent probe for hydrogen sulfide (H_2S).[1] Upon reaction with H_2S, WSP-5 releases a fluorophore that displays excitation/emission maxima of 502/525 nm, respectively. WSP-5 exhibits a faster turn-on rate and a more sensitive detection limit toward H_2S than WSP-1 (Item No. 11179).

Reference

1. Peng, B., Chen, W., Liu, C., *et al.* Fluorescent probes based on nucleophilic substitution-cyclization for hydrogen sulfide detection and bioimaging. *Chemistry* **20(4)**, 1010-1016 (2014).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM