**Product Information**

**WSP-1**

*Item No. 11179*

**CAS Registry No.:** 1352750-34-5  
**Formal Name:** 3’-methoxy-3-oxo-3H-spiro[isobenzofuran-1,9’-xanthen]-6’-yl 2-(pyridin-2-ylsulfanyl)benzoate  
**Synonym:** Washington State Probe-1  
**MF:** C_{32}H_{19}NO_{5}S_{2}  
**FW:** 561.6  
**Purity:** ≥95%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** \( \lambda_{\text{max}}: 225 \text{ nm} \)

**Laboratory Procedures**

For long term storage, we suggest that WSP-1 be stored as supplied at -20°C. It should be stable for at least two years. WSP-1 is supplied as a crystalline solid. A stock solution may be made by dissolving the WSP-1 in the solvent of choice. WSP-1 is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Hydrogen sulfide (H\(_2\)S) is an important gaseous mediator, like nitric oxide, that has significant effects on the immunological, neurological, cardiovascular and pulmonary systems of mammals. WSP-1 is a reactive disulfide-containing, fluorescent probe designed to detect H\(_2\)S in biological samples and cells. Through a reaction-based fluorescent turn-on strategy, WSP-1 selectively and rapidly reacts with H\(_2\)S to generate benzodithiolone and a fluorophore with excitation and emission maxima of 465 and 515 nm, respectively.\(^1\)

**Reference**


**Related Products**

For a list of related products please visit: www.caymanchem.com/catalog/11179

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**WARNING:** This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

**SAFETY DATA**

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. 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**

Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals herein. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery. Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence. The limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees. Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications. Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material. For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.

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