

## HMBR

## Chemical Properties

CAS No. : 1287651-36-8

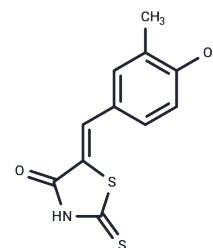
Formula: C<sub>11</sub>H<sub>9</sub>NO<sub>2</sub>S<sub>2</sub>

Molecular Weight: 251.32

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	HMBR are not fluorescent by themselves, but when combined with Y-FAST, they emit yellow light when excited by blue light.
Targets(IC50)	Others
In vitro	<p>Instructions for use</p> <p>I. Solution preparation</p> <p>1. Stock solution: The recommended concentration is 10-50 mM (adjustable according to experimental needs). Dissolve it in sterile water or buffer and mix until completely dissolved.</p> <p>Notes:</p> <p>Powder: Store at -20°C or lower in a light-proof, dry environment; Solution: Store at 4°C for short term, and store at -20°C for long term in aliquots and light-proof conditions to avoid repeated freezing and thawing.</p> <p>II. Operation steps (taking oxidation reaction as an example)</p> <p>1. Prepare the reaction system: buffer (such as 50 mM Tris-HCl, pH 7.4).</p> <p>2. Add HMBR stock solution to the working concentration (usually 1-5 mM).</p> <p>3. Add enzymes or other reactants (such as peroxide).</p> <p>4. Control reaction conditions: Temperature: 37°C. Time: 10-30 minutes, the specific time is optimized according to the experiment.</p> <p>5. Detection method: Use a spectrophotometer to measure the absorbance or chemical signal of the reaction product.</p> <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

## Solubility Information

Solubility	DMSO: 237.5 mg/mL (945.01 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.979 mL	19.895 mL	39.7899 mL
5 mM	0.7958 mL	3.979 mL	7.958 mL
10 mM	0.3979 mL	1.9895 mL	3.979 mL
50 mM	0.0796 mL	0.3979 mL	0.7958 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Gautier A, Tebo AG. Fluorogenic Protein-Based Strategies for Detection, Actuation, and Sensing. *Bioessays*. 2018 Oct;40(10):e1800118.

Plamont MA, et al. Small fluorescence-activating and absorption-shifting tag for tunable protein imaging in vivo. *Proc Natl Acad Sci U S A*. 2016 Jan 19;113(3):497-502. doi: 10.1073/pnas.1513094113. Epub 2015 Dec 28. Erratum in: *Proc Natl Acad Sci U S A*. 2016 Mar 8;113(10):E1412.

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