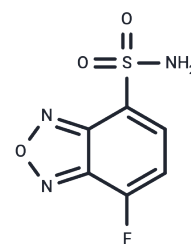


ABD-F

Chemical Properties

CAS No. :	91366-65-3
Formula:	C ₆ H ₄ FN ₃ O ₃ S
Molecular Weight:	217.18
Storage:	Keep away from direct sunlight Store at -20°C <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	ABD-F (4-(Aminosulfonyl)-7-fluoro-2,1,3-benzoxadiazole) is a highly reactive fluorescent reagent for the detection and quantification of thiol groups in thiol-containing amino acids, proteins, and tissues with maximum excitation and emission wavelengths of 389 nm and 513 nm, respectively.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 100 mg/mL (460.45 mM), Sonication is recommended. DMF: 10 mg/mL (46.04 mM), Sonication is recommended. PBS pH 7.2: Slightly soluble PBS (pH 7.2): < 1 mg/mL, insoluble Ethanol: 100 mg/mL (460.45 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (15.19 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6045 mL	23.0224 mL	46.0448 mL
5 mM	0.9209 mL	4.6045 mL	9.209 mL
10 mM	0.4604 mL	2.3022 mL	4.6045 mL
50 mM	0.0921 mL	0.4604 mL	0.9209 mL

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

Toyooka T, et al. New fluorogenic reagent having halogenobenzofurazan structure for thiols: 4-(aminosulfonyl)-7-fluoro-2, 1, 3-benzoxadiazole. Analytical chemistry, 1984, 56(13): 2461-2464.

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