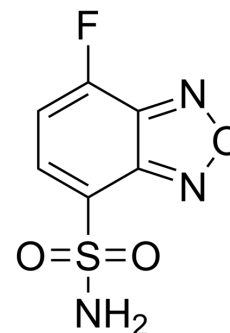


## 4-(Aminosulfonyl)-7-fluoro-2,1,3-benzoxadiazole

<b>Cat. No.:</b>	HY-D0102
<b>CAS No.:</b>	91366-65-3
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>4</sub> FN <sub>3</sub> O <sub>3</sub> S
<b>Molecular Weight:</b>	217.18
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 125 mg/mL (575.56 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	4.6045 mL	23.0224 mL	46.0448 mL
		5 mM	0.9209 mL	4.6045 mL	9.2090 mL
	10 mM	0.4604 mL	2.3022 mL	4.6045 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (9.58 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (9.58 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	4-(Aminosulfonyl)-7-fluoro-2,1,3-benzoxadiazole (ABD-F) is a fluorescent reagent for the sensitive and specific detection of thiols. 4-(Aminosulfonyl)-7-fluoro-2,1,3-benzoxadiazole has low fluorescence background, and good stability of fluorophore [1].
--------------------	--

### REFERENCES

[1]. 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.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA