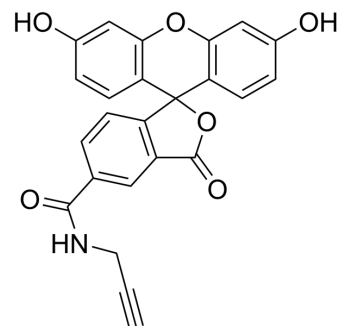


## 5-FAM-Alkyne

<b>Cat. No.:</b>	HY-130913		
<b>CAS No.:</b>	510758-19-7		
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>15</sub> NO <sub>6</sub>		
<b>Molecular Weight:</b>	413.38		
<b>Target:</b>	Phosphatase		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (120.95 mM; Need ultrasonic)					
		<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
	<b>Preparing Stock Solutions</b>	<b>Concentration</b>				
		<b>1 mM</b>		2.4191 mL	12.0954 mL	24.1908 mL
<b>5 mM</b>			0.4838 mL	2.4191 mL	4.8382 mL	
		<b>10 mM</b>	0.2419 mL	1.2095 mL	2.4191 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (6.05 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.05 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

<b>Description</b>	5-FAM-Alkyne is a high selective and sensitive fluorescent biosensor for alkaline phosphatase (ALP) <sup>[1]</sup> . 5-FAM-Alkyne is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
<b>In Vitro</b>	One piece containing FAM fluorophore can easily diffuse into solution and give off a strong fluorescence signal <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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

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