

## Cathepsin D and E FRET Substrate acetate

<b>Cat. No.:</b>	HY-P2498A	
<b>Molecular Formula:</b>	C <sub>87</sub> H <sub>126</sub> N <sub>22</sub> O <sub>21</sub>	
<b>Molecular Weight:</b>	1816.15	
<b>Sequence:</b>	MOCAC-Gly-Lys-Pro-Ile-Leu-Phe-Phe-Arg-Leu-{Lys(Dnp)}-{D-Arg}-NH <sub>2</sub>	MOCAC-GKPILFFRL-{Lys(Dnp)}-{D-Arg}-NH <sub>2</sub> (acetate salt)
<b>Sequence Shortening:</b>	MOCAC-GKPILFFRL-{Lys(Dnp)}-{D-Arg}-NH <sub>2</sub>	
<b>Target:</b>	Cathepsin	
<b>Pathway:</b>	Metabolic Enzyme/Protease	
<b>Storage:</b>	Sealed storage, away from moisture	
	Powder    -80°C    2 years	
	-20°C    1 year	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 10 mg/mL (5.51 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	0.5506 mL	2.7531 mL	5.5062 mL
	5 mM	0.1101 mL	0.5506 mL	1.1012 mL
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Cathepsin D and E FRET Substrate acetate is a fluorogenic substrate for cathepsins D and E and not for B, H or L. The cleavage occurs at the Phe-Phe amide bond resul. Cathepsin D and E FRET Substrate is a valuable tool for routine assays and for mechanistic studies on cathepsins E and D<sup>[1]</sup>.

### REFERENCES

[1]. Y Yasuda, et al. Characterization of new fluorogenic substrates for the rapid and sensitive assay of cathepsin E and cathepsin D. J Biochem

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

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