Cathepsin D and E FRET Substrate acetate

Cat. No.: HY-P2498A

Molecular Formula: $C_{87}H_{126}N_{22}O_{21}$

Molecular Weight: 1816.15

Sequence: MOCAc-Gly-Lys-Pro-Ile-Leu-Phe-Phe-Arg-Leu-{Lys(Dnp)}-{D-Arg}-NH2

Sequence Shortening: MOCAc-GKPILFFRL-{Lys(Dnp)}-{D-Arg}-NH2

MOCAc-GKPILFFRL-{Lys(Dnp)}-{D-Arg}-NH_2 (acetate salt)

Target: Cathepsin

Pathway: Metabolic Enzyme/Protease

Storage: 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_2O : 10 mg/mL (5.51 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	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[1].

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

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

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