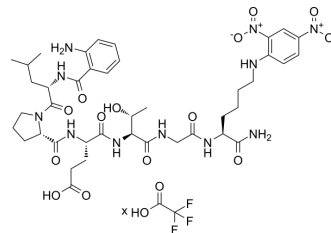


Bacterial Sortase Substrate III, Abz/DNP TFA

Cat. No.:	HY-P1883A
Molecular Formula:	$C_{41}H_{57}N_{11}O_{14} \cdot xC_2HF_3O_2$
Sequence:	{Abz}-Leu-Pro-Glu-Thr-Gly-[Lys(Dnp)]-NH ₂
Sequence Shortening:	{Abz}-LPETG-[Lys(Dnp)]-NH ₂
Target:	Fluorescent Dye
Pathway:	Others
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	DMSO : 50 mg/mL (Need ultrasonic) H ₂ O : < 0.1 mg/mL (ultrasonic) (insoluble)
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (Infinity mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (Infinity mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Bacterial Sortase Substrate III, Abz/DNP TFA is an internally quenched fluorescent peptide substrate. Staphylococcus aureus transpeptidase sortase A (SrtA) reacts with its native substrate Bacterial Sortase Substrate III, Abz/DNP, cleaving it and catalyzing the formation of an amide bond between the carboxyl group of threonine and the amino group of cell-wall crossbridges. Cleavage of this substrate can be monitored at Ex/Em=320 nm/420 nm.
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REFERENCES

[1]. Zhang J, et al. Antiinfective therapy with a small molecule inhibitor of Staphylococcus aureus sortase. Proc Natl Acad Sci U S A. 2014 Sep 16;111(37):13517-22.

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

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