Data Sheet

Product Name:	Bacterial Sortase Substrate III, Abz/DNP (TFA)
Cat. No.:	CS-0101727
Molecular Formula:	$C_{43}H_{58}N_{11}F_3O_{16}$
Molecular Weight:	1042.02
Target:	Others
Pathway:	Others
Solubility:	H2O : < 0.1 mg/mL (ultrasonic) (insoluble); DMSO : 50 mg/mL (47.98 mM; Need ultrasonic)

Abz-LPETG-K(Dnp)-NH_2 (TFA salt)

BIOLOGICAL ACTIVITY:

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.

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.

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SMILES:

[Abz-LPETG-K(Dnp)-NH2 (TFA salt)]

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