

DABCYL-Glu-Arg-Nle-Phe-Leu-Ser-Phe-Pro-EDANS

Cat. No.:	HY-D1532
CAS No.:	263718-22-5
Molecular Formula:	C ₇₆ H ₉₈ N ₁₆ O ₁₅ S
Molecular Weight:	1507.75
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	DABCYL-Glu-Arg-Nle-Phe-Leu-Ser-Phe-Pro-EDANS is a fluorescent dye, and can be applied in a fluorogenic substrate for an aspartyl proteinase from human malaria parasite ^[1] .
In Vitro	DABCYL-Glu-Arg-Nle-Phe-Leu-Ser-Phe-Pro-EDANS (10 μM) can be used in the plasmepsin assay to mimic the cleavage site present in hemoglobin (k_{cat} : 0.78 /s, K_m : 0.10 μM, for <i>P. falciparum</i> plasmepsin; and k_{cat} : 0.69 /s, K_m : 0.16 μM, for <i>P. vivax</i> plasmepsin. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. S Jiang, et al. New class of small nonpeptidyl compounds blocks Plasmodium falciparum development in vitro by inhibiting plasmepsins. Antimicrob Agents Chemother. 2001 Sep;45(9):2577-84.

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

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