

## CTP-NBD

<b>Cat. No.:</b>	HY-P10081
<b>CAS No.:</b>	1268513-27-4
<b>Molecular Formula:</b>	C <sub>121</sub> H <sub>194</sub> N <sub>46</sub> O <sub>32</sub>
<b>Molecular Weight:</b>	2805.12
<b>Sequence:</b>	Tyr-Gly-Arg-Arg-Ala-Arg-Arg-Arg-Ala-Arg-Arg-Thr-Ala-Leu-Asp-Trp-Ser-Trp-Leu-Gln-Thr-Glu
<b>Sequence Shortening:</b>	YGRRARRRRARTALDWSWLQTE
<b>Target:</b>	NF-κB
<b>Pathway:</b>	NF-κB
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

Description	CTP-NBD is a cell permeable specific NFκB peptide inhibitor. CTP-NBD could be used in colitis study <sup>[1][2]</sup>
In Vitro	CTP-NBD (200 μM, 6 h) inhibits TNF-α induced luciferase activity in HCT116 cells <sup>[1]</sup> . CTP-NBD (200 μM, 6 h) inhibits the expression of IL-8, INOS and COX-2 in RAW264.7 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
	Immunofluorescence <sup>[1]</sup>
	Cell Line: HCT116
	Concentration: 200 μM
	Incubation Time: 6 h
	Result: Inhibited the luciferase activity induced by TNF-α.
	Western Blot Analysis <sup>[1]</sup>
	Cell Line: RAW264.7
	Concentration: 200 μM
	Incubation Time: 6 h
Result: Inhibited the express of INOS and COX-2 protein.	
In Vivo	CTP-NBD can not effectively reduce inflammation in colitis rat model, but the modified Colon-targeted CTP-NBD has oral activity and can reduce inflammation in colitis rat model <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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[1]. Lee Y, et al. Colon-targeted celecoxib ameliorates TNBS-induced rat colitis: a potential pharmacologic mechanism and therapeutic advantages. *Eur J Pharmacol.* 2014 Mar 5;726:49-56

[2]. Hong S, et al. Colon-targeted cell-permeable NFκB inhibitory peptide is orally active against experimental colitis. *Mol Pharm.* 2012 May 7;9(5):1310-9.

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

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