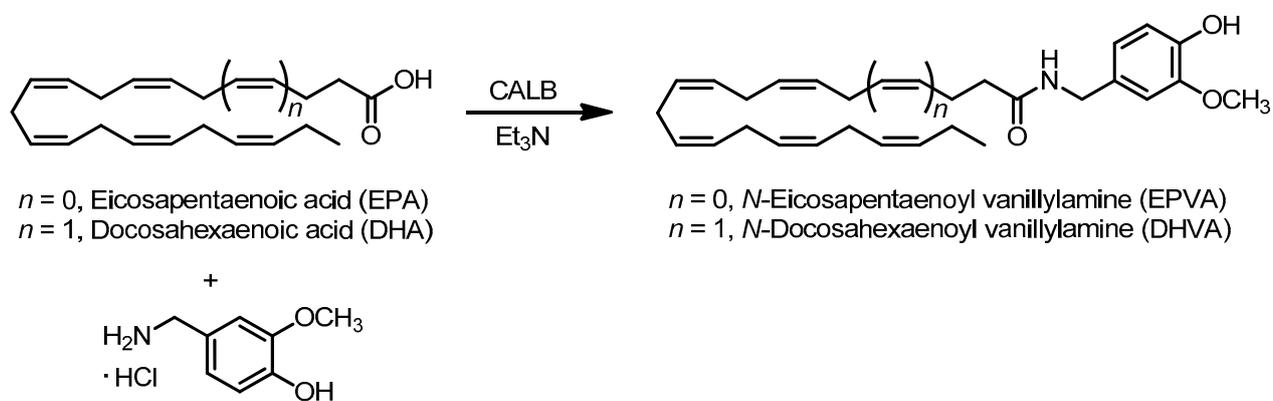


**Capsaicin analogues derived from n-3 polyunsaturated fatty acids (PUFAs) reduce inflammatory activity of macrophages and stimulate insulin secretion by  $\beta$ -cells *in vitro***



**Figure S1.** Synthesis of *N*-eicosapentaenoyl vanillylamine (EPVA) and *N*-docosahexaenoyl vanillylamine (DHVA)

**Table S1:** Effect of EPVA and DHVA on RAW 264.7 macrophages by XTT / LDH assays

<b>Treatment</b>	<b>Concentration (<math>\mu\text{M}</math>)</b>	<b>Viability (%)</b>	<b>Cytotoxicity (%)</b>
Vehicle	-	100	100
EPVA	0.01	116 $\pm$ 3	100 $\pm$ 4
	0.1	118 $\pm$ 12	105 $\pm$ 4
	1.0	99 $\pm$ 7	100 $\pm$ 5
	2.5	109 $\pm$ 12	112 $\pm$ 9
DHVA	0.01	119 $\pm$ 19	103 $\pm$ 2
	0.1	97 $\pm$ 16	100 $\pm$ 1
	1.0	108 $\pm$ 11	103 $\pm$ 9
	2.5	107 $\pm$ 8	111 $\pm$ 6
Triton X-100	-	27 $\pm$ 2	212 $\pm$ 6

**Table S2:** Effect of EPVA and DHVA on INS-1 832/13  $\beta$ -cell line by MTT assay

<b>Treatment</b>	<b>Concentration (<math>\mu\text{M}</math>)</b>	<b>Viability (%)</b>
Vehicle	-	100
EPVA	1.0	99 $\pm$ 6
	2.5	95 $\pm$ 7
DHVA	1.0	89 $\pm$ 13
	2.5	83 $\pm$ 11