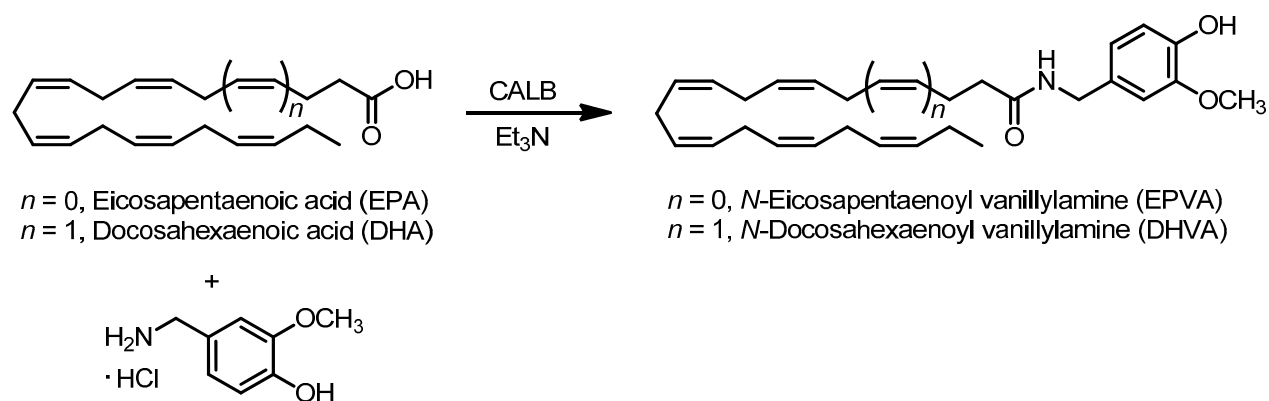


**Capsaicin analogues derived from n-3 polyunsaturated fatty acids (PUFAs) reduce inflammatory activity of macrophages and stimulate insulin secretion by  $\beta$ -cells *in vitro***



**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

Treatment	Concentration ( $\mu\text{M}$ )	Viability (%)	Cytotoxicity (%)
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

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