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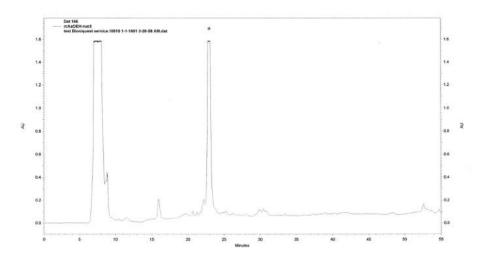


Fig. S1. Chromatograms showing the purification of ILP3 (A) and OEH (B). (A) After synthesis, ILP3 was purity checked by elution on a reversed phase column (Phenomenex Jupiter C18 (5 $\mu\mu$ m, 120 Å) 4.6 X 150 mm) with a gradient of solvents A (0.1% TFA in HPLC water) and B (0.1% TFA in 80% acetonitrile and 10% water). ILP3 eluted as single peak as indicated by an asterisk (*) at 10-11 min with the gradient program (33 – 63% solvent B for 20 min, 1 ml/min flow) as monitored at 220 nm. (B) Recombinant OEH (18,278 MW) produced in *E. coli* was extracted in 0.5 ml of denaturing buffer (50 mM Tris pH 8.0, 0.2 M NaCl, 2 mM EDTA, and 7 M GuHCl) for 1 h at room temperature. Solvent (0.5 ml of 20% acetonitrile/80% water with 0.1% trifluoroacetic acid (TFA)) was added, and after mixing, 0.1 ml was added to 0.5 ml of the same solvent, mixed, and centrifuged (13K x g, 4 min). The supernatant was injected onto a reversed phase column (Phenomenex Jupiter C18 (5 μ m, 300Å) 10 X 220 mm), which eluted as a single peak as indicated by an asterisk (*) at 23-24 min with a gradient of solvents A (0.1% TFA in HPLC water) and B (0.1% TFA in 90% acetonitrile and 10% water). The gradient program was set with a flow of 2 ml/min and monitored at 220 nm: solvent B 20%, 5 min; 20 - 50%, 10 min; 50 - 70%, 30 min; 70 – 100%, 5 min; 100 – 20%, 5 min. Fractions of this peak were then pooled, lyophilized, and stored at -80°C. Weighed portions were prepared as a 200 pmol/ul stock in pure water, aliquoted, and stored at -80°C for use one time.

Table S1. The expression in FPKM of the 548 genes identified by Raddi et al. (2020) as hemocyte markers averaged over three replicates of hemocytes. BF, expression measured 24h after blood feeding; NBF, expression measured in age-match non-blood fed mosquitoes; ILP3; expression measured 24 h after blood feeding, decapitation, and ILP3 injection.

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Table S2. Genes with FPKM =10 identified in hemocytes from age-matched NBF females, BF females 24 h PBM, or BF females 24 h PBM that were injected with ILP3 and decapitated. Each row indicates the gene, average FPKM across the three replicate libraries for each treatment with an X indicating expression exceeded a 10 FPKM cutoff.

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Table S3. Gene ontology (GO) terms identified among the 262 genes that were preferentially expressed with FPKM=10 in hemocytes from BF females that were injected with ILP3 and decapitated.

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Table S4. Genes with FPKM values =10 in in three replicates of hemocytes from BF females 24 h PBM that were injected with ILP3 and decapitated, age-matched NBF females, and BF females 24 h PBM. Significanly differentially expressed genes between only ILP3 and NBF females, only ILP3 and BF females, and ILP3 to both NBF and BF females are denoted with an "X".

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Table S5. The expression in FPKM of immune genes averaged over three replicates of hemocytes . BF, expression measured 24h after blood feeding; NBF, expression measured in age-match non-blood fed mosquitoes; ILP3; expression measured 24 h after blood feeding, decapitation, and ILP3 injection.

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