Structural and dynamic insight into substrate binding and catalysis of Human Lipocalin Prostaglandin D Synthase
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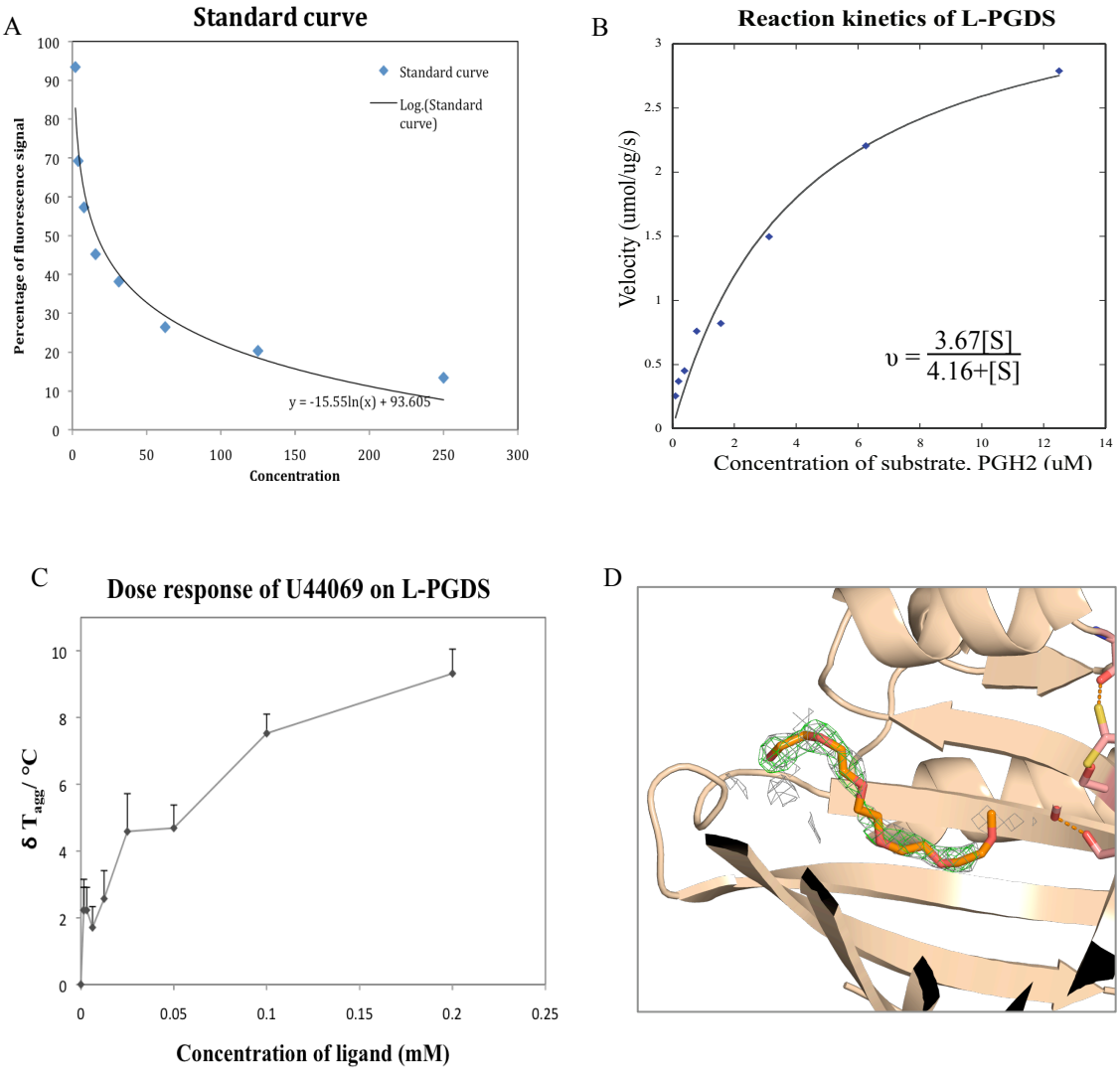
Figure S1



(A&B) PGD2-MOX ELISA ezymatic assay from Cayman chemicals: panel (A) is the reaction kinetics experimentally measure using fixed time point assay, curve is fitted with Michaelis Menten equation to a R^2 of 0.97. Panel (B) is the standard curve of fluorescence signal versus concentration of product. (C) Dose response curve of substrate analog U44069 acting on human L-PGDS protein, the increment in protein stability is ligand concentration dependent as represented in the dose response curve. Results are representative of three independent experiments and values indicate means ± s.d. of one experiment with three measurement taken. (D) APO crystal structure, 2Fo-Fc density map of ligand observed inside the binding groove near E-F and G-H loop is modeled with truncated PEG MME2000 found in the reservoir.