

## Supporting Information for

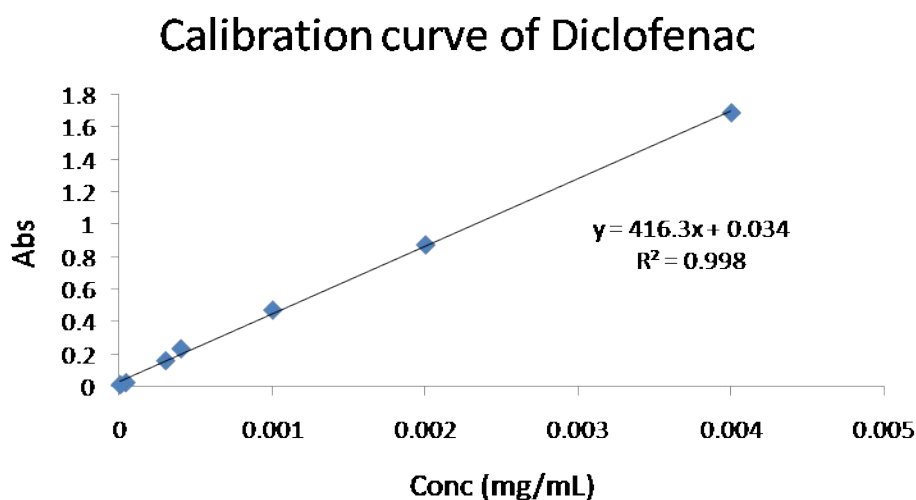
### Self-assembly of diclofenac prodrug into nanomicelles for enhancing the anti-inflammatory activity

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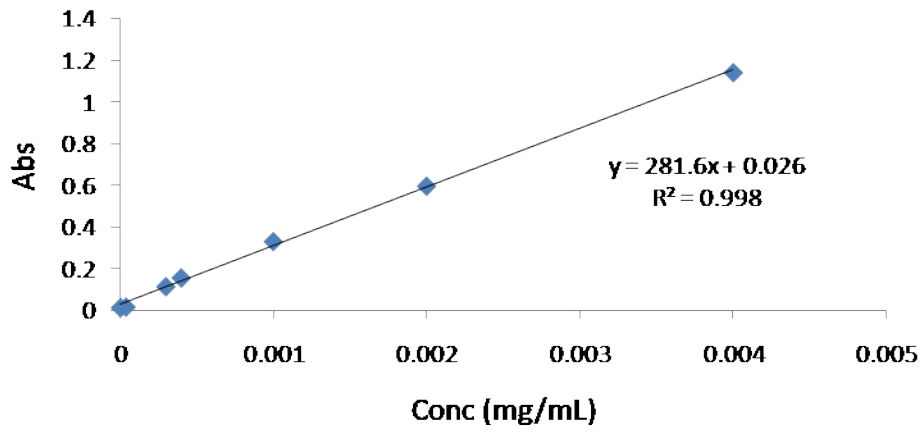
#### 1. Phosphate buffered saline solution (1x, pH = 7.4) preparation procedure:

800 milliliters of distilled water was placed into a container. 8 g of NaCl and 0.2 g of KCl were added into the water. 1.44 g of sodium hydrogen phosphate ( $\text{Na}_2\text{HPO}_4$ ) and 0.24 g of  $\text{KH}_2\text{PO}_4$  were dissolved into the solution. Top off the distilled water until the solution equals 1 liter. The pH was measured with a pH meter and adjusted to 7.4 with hydrochloric acid (1M) if necessary.

#### 2. Calibration curves of diclofenac, Dic-PEG400-Dic, and Dic-PEG600-Dic



Calibration curve of Dic-PEG400-Dic



Calibration curve of Dic-PEG600-Dic

