

Review Form 1.7

Journal Name:	Journal of Pharmaceutical Research International
Manuscript Number:	Ms_JPRI_119083
Title of the Manuscript:	Differential Scanning Calorimetry: A Powerful and Versatile Tool for Analyzing Proteins and Peptides
Type of the Article	Review Article

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>1. It is a well prepared manuscript about DSC for Analyzing Proteins and Peptides. The result is interesting and will have great contribution to the JOURNAL.</p> <p>2.YES.</p> <p>3.YES</p> <p>4.YES.</p> <p>5.YES.</p> <p>6.NO. please see the following suggestions:</p> <p>(1) At 4.5.1 authors state that "The enthalpy of unfolding directly measured by DSC helps improve the precision of the binding constant determination." Please indicate the reference.</p> <p>(2) At 4.5.2 authors state that "It can also separate binding steps and measure weak binding to secondary sites at high ligand concentrations." Please indicate the reference.</p> <p>(3)At 4.5.3 authors state that "If ligand binding is coupled to protonation reactions, DSC can be used at different pH values to determine the intrinsic, pH-independent binding constant." Please indicate the reference.</p> <p>(4) At 4.5.4 authors state that "A shift of the protein denaturation peak to higher temperatures in the presence of a ligand is a sign of protein-ligand binding. " Please indicate the reference.</p> <p>(5) At 4.5.5 authors state that "A ratio above ~10 indicates the peptide has inserted into the bilayer." Please indicate the reference.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	YES	
<p>Optional/General comments</p>	It is a well prepared manuscript about Differential Scanning Calorimetry: A Powerful and Versatile Tool for Analyzing Proteins and Peptides. The results are interesting and will have great influence on the JOURNAL.	

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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