**Microscale Thermophoresis**

**(MST)**

**Analysis Request**

1. **Applicant Information**

|  |  |
| --- | --- |
| **Name**  |  |
| **Email** |  | **Phone** |  |
| **Supervisor** |  | **Supervisor email** |  |
| **Group/Lab** |  | **Phone extension** |  |

1. **Assay Information**

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| --- | --- | --- | --- |
| **Laser (Blue or Red)** |  | **Temperature (°C)** |  |

* **Pre-test**

|  |  |
| --- | --- |
| **Target name** |  |
| **Target type** (protein, peptide, organic compound, nucleic acid…) |  |
| **Labeling kit** |  |
| **Concentration of stock** |  |
| **Concentration in the assay** |  |
| **Assay buffer** |  |
| **Capillary** (standard or premium) |  |
| **MST Power**(low/ medium (default) /high) |  |

* **Binding Check**

|  |  |
| --- | --- |
| **Target name** |  |
| **Target type** (protein, peptide, organic compound, nucleic acid…) |  |
| **Labeling Kit** |  |
| **Concentration of stock** |  |
| **Concentration in the assay** |  |
| **Assay buffer** |  |
| **Capillary** (standard or premium) |  |
| **Excitation Power** (determined by pre-test or 10-90%) |  |
| **MST Power**(low/ medium (default) /high) |  |
|  |
| **Ligand Name** |  |
| **Estimated Kd** (optional) |  |
| **Concentration of stock solution** |  |
| **Ligand in organic solvent like DMSO** (yes/no) |  |
| **Ligand buffer in this assay**  |  |
| **Highest concentration in this assay** |  |
| **Check for ligand auto-fluorescence**(yes/no) |  |

* **Binding Affinity**

|  |  |
| --- | --- |
| **Target name** |  |
| **Target type** (protein, peptide, organic compound, nucleic acid…) |  |
| **Labeling Kit** |  |
| **Concentration of stock** |  |
| **Concentration in the assay** |  |
| **Assay buffer** |  |
| **Capillary** (standard or premium) |  |
| **Excitation Power** (determined by pre-test or 10-90%) |  |
| **MST Power**(low/ medium (default) /high) |  |
|  |
| **Ligand Name** |  |
| **Estimated Kd** (optional) |  |
| **Concentration of stock solution** |  |
| **Ligand in organic solvent like DMSO** (yes/no) |  |
| **Ligand buffer in this assay**  |  |
| **Highest concentration in this assay** |  |

|  |
| --- |
| **Notes:**(please fill in with information you consider relevant, e.g. abbreviations used on tube identification, sample details and requirements, etc.)  |

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| --- |
| **Sample requirements:** * Concentration of fluorescent molecule: in the same range or lower than the expected *Kd*
* Highest concentration of ligand: 20 fold above the expected *Kd*
* Final sample volume per titration point: ~ 20 µl
* Use small tubes for the serial dilution: e.g. PCR strips, tubes
* Dilution buffer should not vary in composition in serial dilution: e.g. DMSO
* Accurate pipetting is essential
* Mix with pipette instead of vortexing

**Results will be sent exclusively by email in the .moc format.** If you need help with result analysis please contact the technician. |

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Submission date: Analysis date: