Stable isotope labeling with amino acids in cell culture (SILAC)

A

MOLM-13

<table>
<thead>
<tr>
<th>Light isotopes</th>
<th>Heavy isotopes</th>
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<tbody>
<tr>
<td>Control (DMSO), 6h</td>
<td>6 µM nutlin-3, 6h</td>
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- Harvest and lysis of cells, mixed lysates 1:1
- Immunoprecipitation of acetylated proteins
  - lysate + anti-actyl-lysine antibody + beads
- Separation of eluted proteins on SDS-PAGE
  - Excised 13 bands
  - Trypsin digestion
- LC-MS/MS analysis on Orbitrap

ID's and H/L ratios obtained using Maxquant and Perseus

B

Histone H2B

- m/z values
  - 888.41, 888.92, 889.41, 889.91, 893.41, 893.91, 894.42, 894.92, 895.42

- Relative abundance
  - ∆ 5Da