Pyrene Labeled Actin Protein (Mical-oxidized)
Rabbit skeletal
Store at 4°C (desiccated)

Catalog #

MXAP95
MXAP95-XL

Product Description: Pyrene labeled rabbit skeletal muscle actin protein (MICAL-oxidized) (Cat. # MXAP95) has been enzymatically oxidized at methionines 44 and 47 (b-actin nomenclature) with the MICAL flavoprotein monoxygenase protein (Cat. # MIC01). MICAL-oxidized (pyrene labeled) rabbit muscle actin has an approximate molecular weight of 43 kDa and is supplied as a white lyophilized powder.

Amount:

MXAP95 250 µg
MXAP95-XL 1 mg

Lot:

001

<table>
<thead>
<tr>
<th>TEST</th>
<th>SPECIFICATION</th>
<th>LOT RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White lyophilized powder</td>
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</tr>
<tr>
<td>Purity by Coomassie Gel</td>
<td>&gt;95%</td>
<td>&gt;95%</td>
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<tr>
<td>Protein Quantitation with Precision Red Protein Assay Reagent (Cytoskeleton Cat. # ADV02)</td>
<td>MXAP95 250-275µg</td>
<td>261 µg</td>
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<td>MXAP95-XL 1.0-1.2 mg</td>
<td>1.04 mg</td>
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<tr>
<td>Biological Activity Assay #1: Subtilisin cleavage</td>
<td>&lt;10% cleavage of Mical1 oxidized actin. &gt;75% cleavage of native actin</td>
<td>&lt;10% &gt;75%</td>
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<tr>
<td>Biological Activity Assay #2: Pyrene actin polymerization assay (fluorescence: ex 360 nm, em 405 nm) of oxidized pyrene actin compared to native pyrene actin</td>
<td>At 0.05 mg/ml actin: oxidized pyrene actin will not polymerize (&lt;10% above baseline)</td>
<td>&lt;10%</td>
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<td>At 0.1 mg/ml actin: oxidized actin will polymerize at 40-50% the efficiency of native pyrene actin</td>
<td>50%</td>
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<td>QC Release Date</td>
<td>May 29th 2019</td>
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Kim Middleton