Inhibitors for Functional Assays:

PI3K Inhibitor: LY294002

**Description**

LY294002, 2-(4-Morpholinyl)-8-phenyl-4H-1-benzopyran-4-one hydrochloride, is a potent and selective phosphatidylinositol-3 kinase (PI-3K) inhibitor. The reported IC50 is 1.4 μM. It is supplied as 10 mM solution in DMSO, a convenient format for using the CASE™ kits.

**Quality Control**

Assay: Cells pre-treated without or with inhibitor at 50 μM for 1 hour and then also treated with 10 ng/ml IGF1 for 30 minutes were assayed for pathway activation with the CASE™ Kit for AKT S473.

Based on the concentration used for quality control purposes, this product contains enough material for at least 200 assays. However, the optimal conditions for each specific application should be determined empirically, and the number of assays achievable will vary.

**Materials Included**

*Please check the kit components immediately after you receive this package. We are not responsible for any missing items not reported within two (2) business days upon receipt.*

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Product</th>
<th>Size</th>
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<tbody>
<tr>
<td>FA-002</td>
<td>LY294002</td>
<td>One vial, 200 μl, 10 mM in DMSO</td>
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**Storage Conditions**

This kit is shipped on dry ice. Aliquot and store at –20°C. Avoid repeated freezing and thawing.

**Shelf Life:** All reagents are stable at the recommended temperature for 1 month after receipt of the kit.

**References**


Related Products

Cellular Activation of Signaling ELISA: CASE™ Kit for AKT S473

For follow-up at the expression level:
RT² Profiler™ PCR Arrays and Oligo GEArray® Microarrays
(See www.SABiosciences.com/ArrayList.php for complete listings)
RT² Real-Time™ PCR Primer Sets – available for every human, mouse, and rat gene
(See www.SABiosciences.com/QRTsearch.php for our primer set search engine)

For knock down of gene expression:
SureSilencing™ shRNA Plasmids – available for every human, mouse, and rat gene
(See www.SABiosciences.com/RNAisearch.php for complete listings)