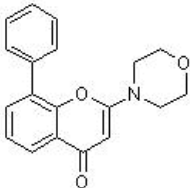


Product datasheet

LY 294002, PI3-kinase inhibitor ab120243

[40 References](#) [2 Images](#)

Overview

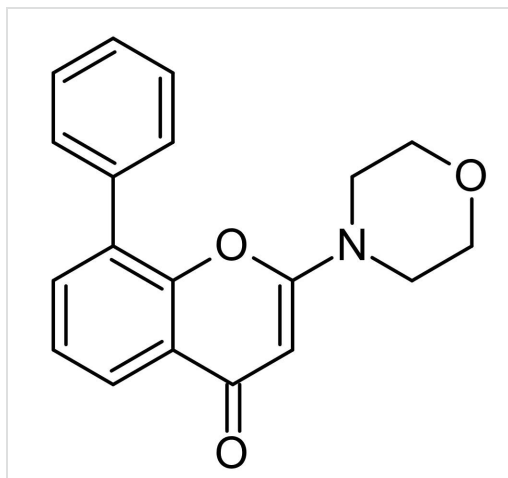
Product name	LY 294002, PI3-kinase inhibitor
Description	PI3-kinase inhibitor
Biological description	A highly selective inhibitor of phosphatidylinositol 3-kinase ($IC_{50} = 1.4 \mu M$). Selective over a range of other kinases including protein kinase C, protein kinase A, MAPK and PI4-kinase ($IC_{50} > 50 \mu M$).
Purity	> 99%
CAS Number	154447-36-6
Chemical structure	

Properties

Chemical name	2-(4-Morpholinyl)-8-phenyl-1(4 <i>H</i>)-benzopyran-4-one
Molecular weight	307.35
Molecular formula	$C_{19}H_{17}NO_3$
PubChem identifier	3973
Storage instructions	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 25 mM and in ethanol to 5 mM
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>

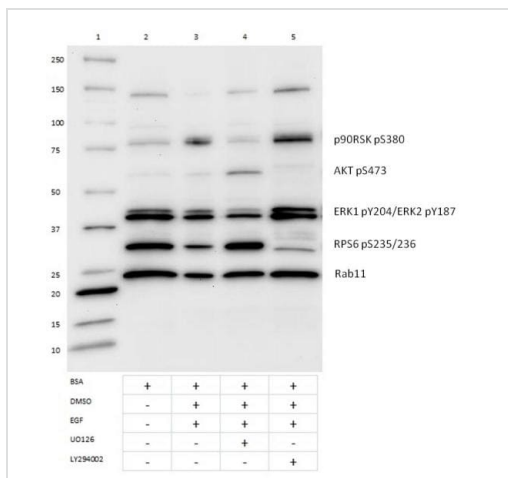
SMILES
O=C2C=C(Oc1c(cccc12)c3ccccc3)N4CCOCC4
Source

Synthetic

Images

Chemical Structure - LY 294002, PI3-kinase inhibitor
(ab120243)

2D chemical structure image of ab120243, LY 294002, PI3-kinase inhibitor



Western blot - LY 294002, PI3-kinase inhibitor
(ab120243)

Performed under reducing conditions; Samples loaded at 30 µg/lane. Membrane blocking and secondary antibody incubation performed in 5% milk/PBST. Primary antibody incubation performed in 5% BSA/PBST.

Lane 1: Marker

Lane 2: A431 lysate starved

Lane 3: A431 lysate starved treated with 100 ng/mL of EGF for 30 min

Lane 4: A431 lysate starved and pretreated for 2 hours with 10µM U0126 (**ab120241**)

Lane 5: A431 lysate starved and pretreated for 2 hours with 30µM Ly294002 (ab120243)

Primary: AKT/MAPK signaling pathway antibody cocktail at 1/250 dilution

Secondary: HRP conjugated Goat anti-Rabbit secondary antibody at 1:10,000 dilution.

Observed bands:

RSK1p90 (pS380) band size: 83 kDa

AKT1 (pS473) band size: 56 kDa

ERK1 (pY204) and ERK2 (pY187) band size: 43 kDa
RPS6 (pS235/236) band size: 31 kDa
Rab11a band size: 24 kDa
Unknown band: 130kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
- Abcam biochemicals are novel compounds and we have not tested their biological activity in house. Please use the literature to identify how to use these products effectively. If you require further assistance please contact the scientific support team