U0126, Selective MKK inhibitor ab120241

Overview

Product name: U0126, Selective MKK inhibitor
Description: Selective MKK inhibitor
Biological description: Selective non-competitive inhibitor of MAP kinase kinase (MKK). Inhibits MKK1, MKK2 (IC_{50} values of 0.07 and 0.06 μM, respectively) and MKK5 with little or no effect on a wide range of other kinases. Centrally active following systemic administration in vivo.
Purity: > 98%
CAS Number: 109511-58-2
Chemical name: 1,4-Diamino-2,3-dicyano-1,4-bis(2-aminophenylthio)butadiene
Chemical structure:

Properties

Chemical name: 1,4-Diamino-2,3-dicyano-1,4-bis(2-aminophenylthio)butadiene
Molecular weight: 380.49
Molecular formula: C_{18}H_{16}N_{6}S_{2}
PubChem identifier: 3006531
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 100 mM
Handling: 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.

SMILES: N/C(Sc1ccccc1N)=C/(C#N)C(C#N)=C/(N)Sc2cccccc2N
Source: Synthetic

8 References 1 Image
Western blot - U0126, Selective MKK inhibitor (ab120241)

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”

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