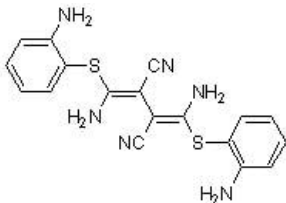


Product datasheet

U0126, Selective MKK inhibitor ab120241

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

Overview

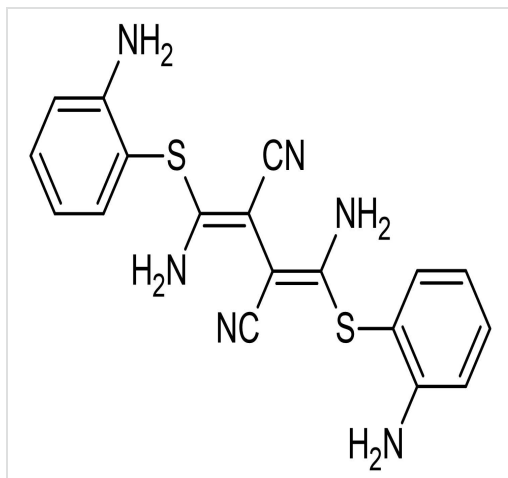
Product name	U0126, Selective MKK inhibitor
Description	Selective MKK inhibitor
Biological description	Selective non-competitive inhibitor of MAP kinase kinase (MKK). Inhibits MKK1, MKK2 (IC ₅₀ values of 0.07 and 0.06 µM, respectively) and MKK5 with little or no effect on a wide range of other kinases. Centrally active following systemic administration <i>in vivo</i> .
Purity	> 98%
CAS Number	109511-58-2
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	<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>

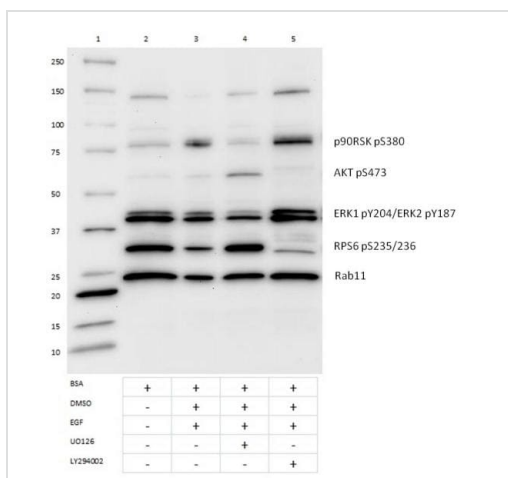
SMILES
N/C(Sc1ccccc1N)=C(/C#N)C(C#N)=C(/N)Sc2ccccc2N
Source

Synthetic

Images

Chemical Structure - U0126, Selective MKK inhibitor
(ab120241)

2D chemical structure image of ab120241, U0126, Selective MKK inhibitor



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
Performed under reducing conditions; Samples I

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

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