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DATASHEET

U0126

Product overview

Name	U0126
Cat No	HB2246
Biological action	Inhibitor
Purity	>99%
Description	Potent, selective MEK-1/MEK-2 inhibitor

Images



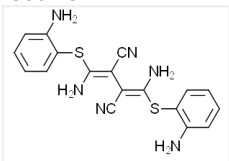
Biological Data

Biological description	Potent, selective and non-competitive MAP kinase kinase (MAP2K) inhibitor. Inhibits both MEK-1 and MEK-2 (IC ₅₀ values are 72 and 58 nM respectively) while showing little or no effect on many other kinases. Inhibits AP-1 transactivation and shows many other actions. Active <i>in vivo</i> .
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Solubility & Handling

Storage instructions	+4 °C (desiccate)
Solubility overview	Soluble in DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	1,4-Diamino-2,3-dicyano-1,4-bis[2-aminophenylthio]butadiene
Molecular Weight	380.48
Chemical structure	
Molecular Formula	C ₁₈ H ₁₆ N ₆ S ₂
CAS Number	109511-58-2
PubChem identifier	3006531

Chemical name	1,4-Diamino-2,3-dicyano-1,4- <i>bis</i> [2-aminophenylthio]butadiene
SMILES	<chem>C1=CC=C(C(=C1)N)S/C(=C/C(=C/SC2=CC=CC=C2N)\N)/C#N\C#N)/N</chem>
InChi	InChI=1S/C18H16N6S2/c19-9-11(17(23)25-15-7-3-1-5-13(15)21)12(10-20)18(24)26-16-8-4-2-6-14(16)22/h1-8H,21-24H2/b17-11+,18-12+
InChiKey	DVEXZJFMOKTQEZ-JYFOCSDGSA-N
MDL number	MFCD25977152

References

MEK inhibitors: the chemistry and biological activity of U0126, its analogs, and cyclization products.

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PubMedID [9873633](#)

Identification of a novel inhibitor of mitogen-activated protein kinase kinase.

Favata MF *et al* (1998) J Biol Chem 273(29)

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Anti-inflammatory effects of mitogen-activated protein kinase kinase inhibitor U0126 in an asthma mouse model.

Duan W *et al* (2004) J Immunol 172(11)

PubMedID [15153527](#)

Pre-LTP requires extracellular signal-regulated kinase in the ACC.

Yamanaka et al (2016) Mol Pain 12

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