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- Expressversand

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Geldanamycin- Biotin

Hsp90 inhibitor
Catalog No. SIH-112



Discovery through partnership | Excellence through quality

Overview

Product Name

Geldanamycin- Biotin

Description

Hsp90 inhibitor

Purity

>98%

CAS No.

30562-34-6

Molecular Formula

C₁₁H₁₁N₁O₁₁S

Molecular Weight

560.6

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble in DMSO

Source

Synthetic

Appearance

Purple Solid

SMILES

C[C@H]1C[C@@H]([C@@H]([C@H](/C=C/[C@@H]([C@H](/C=CC=C(C(=O)NC2=CC(=O)C(=C(C1)C2=O)OC)/C)OC)OC(=O)N)C)O)OC

InChI

InChI=1S/C29H40N2O9/c1-15-11-19-25(34)20(14-21(32)27(19)39-7)31-28(35)16(2)9-8-10-22(37-5)26(40-29(30)36)18(4)13-17(3)24(33)23(

12-15)38-6/h8-10,13-15,17,22-24,26,33H,11-12H2,1-7H3,(H2,30,36)(H,31,35)

InChIKey

QTQAWLPCGQOSGP-KSRBKZBZSA-N

Safety Phrases

Classification: Harmful. May be harmful if inhaled, swallowed or absorbed through skin.

Safety Phrases:

S22 - Do not breathe dust

S24/25 - Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Risk Phrases:

R68- Possible risk of irreversible effects

Cite This Product

Geldanamycin- Biotin (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-112)

Biological Description

Alternative Names

(4E,6Z,8S,9S,10E,12S,13R,14S,16R)-13-hydroxy-8,14,19-trimethoxy-4,10,12,16-tetramethyl-3,20,22-trioxo-2-azabicyclo[16.3.1]docosa-1(21),4,6,10,18-pentaen-9-yl carbamate

Research Areas

Cancer, Heat Shock

PubChem ID

5288382

Scientific Background

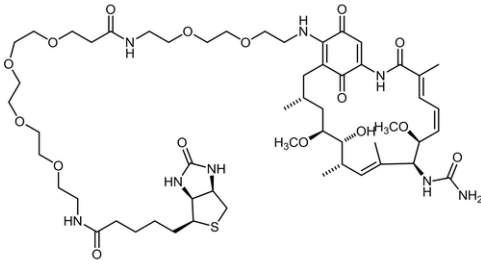
Geldanamycin is a benzoquinoid ansamycin produced by *Streptomyces hygroscopicus*. It binds specifically to heat shock protein HSP90 and downregulates target proteins including tyrosine kinases, steroid receptors, transcription factors and cell cycle regulatory kinases (1,2). It induces the inactivation, destabilization and eventual degradation of HIF-1 α (3). It is also an inhibitor of pp60src tyrosine kinase and of c-myc gene expression in murine lymphoblastoma cells. It inhibits the transforming activity of abl, erbB, fps, src, and yes (4). Geldanamycin is capable of destabilizing several oncogene and proto-oncogene products; it is a potent inhibitor of the nuclear hormone receptor family (5). It protects against α -synuclein toxicity to dopaminergic neurons in *Drosophila*, and destabilizes mutant p53 protein from a number of breast, leukemic, and prostate cell lines (6). Inhibits basal and hypoxia-induced expression of c-Jun (IC₅₀=75nM) and abolishes hypoxia-induced increase in c-Jun N-terminal kinase (JNK) activity. Inhibits telomerase activity through inhibition of HSP90, a chaperone required for the assembly and activation of telomerase in human cells (6). It is ~10-fold more potent than herbimycin A. Looking for more information on HSP90? Visit our new HSP90 Scientific Resource Guide at <http://www.HSP90.ca>.

References

1. Whitesell L., et al. (1994) Proc. Natl. Acad. Sci. USA 91:8324.
2. Neckers L. (2002) Trends Mol. Med. 8: S55.
3. Mabeesh N.J., et al. (2002) Cancer Res. 62: 2478.
4. Chavany C., et al. 1996) Amer. Society Biochem Mol Bio. 9: 4974-4977.
5. Villa R., et al. (2003) Carcinogenesis. 24(5): 851-9.
6. Yamaki H., Iguchi-Arigo S.M., and Ariga H. (1989) J Antibiot (Tokyo). 42(4): 604-10.

Product Images

Chemical structure of Geldanamycin- Biotin (SIH-112), a Hsp90 inhibitor. CAS #: 30562-34-6. Molecular Formula: C₅₅H₈₇N₇O₁₇S. Molecular Weight: 560.6 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.