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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Geldanamycin

Hsp90 inhibitor
Catalog No. SIH-111



Discovery through partnership | Excellence through quality

Overview

Product Name

Geldanamycin

Description

Hsp90 inhibitor

Purity

>95%

CAS No.

30562-34-6

Molecular Formula

C₂₃H₂₆N₂O₉, C₂₃H₂₅N₂O₉

Molecular Weight

560.6, 561.6

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Slightly soluble in methanol, chloroform or DMSO (10 mg/ml); insoluble in water

Source

Produced by fermentation

Appearance

Yellow 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 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-111)

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

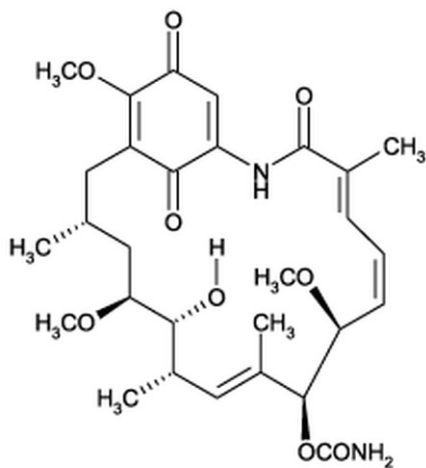
Glendanamycin (GA), a benzoquinone ansamycin antibiotic, interferes with the action of Hsp90 leading to degradation of Hsp90 client proteins. GA itself however has undesirable properties such as poor aqueous solubility and liver toxicity; therefore, numerous analogs have been synthesized, such as 17-AAG(1). 17-AAG is an HSP-90 inhibitor that displays a 100-fold higher affinity for HSP-90 derived from tumor cells compared to HSP-90 from normal cells(2). 17-AAG inhibits Akt activation and expression in tumors and synergizes with a number of antitumor agents such as taxol(3), cisplatin(4) and UCN-01 (400 nM 17-AAG, U937 cells)(5). 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. Mabjeesh 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 (SIH-111), a Hsp90 inhibitor. CAS #: 30562-34-6.
Molecular Formula: C₂₉H₄₀N₂O₉. Molecular Weight: 560.6 g/mol.



Product Citations (2)

Other Citations

Hsp90 inhibitor induces autophagy and apoptosis in osteosarcoma cells.

Mori, M. et al. (2014) *Int J Oncol.* 46(1):47-54.

PubMed ID: 25351442 **Applications:** Cell viability assay

A novel small molecule HSP90 inhibitor, NXD30001, differentially induces heat shock proteins in nervous tissue in culture and in vivo.

Cha, J.R.C. et al. (2013) *Cell Stress Chaperones.* 19(3):421-35.

PubMed ID: 24092395 **Applications:** In vitro inhibition

Reviews

There are no reviews yet.