



# SZABO SCANDIC

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## Produktinformation



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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Geldanamycin- FITC

Hsp90 inhibitor  
Catalog No. SIH-113



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

Geldanamycin- FITC

### Description

Hsp90 inhibitor

### Purity

>98%

### CAS No.

30562-34-6

### Molecular Formula

C<sub>17</sub>H<sub>14</sub>N<sub>2</sub>O<sub>10</sub>

### Molecular Weight

560.6

## Properties

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### 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)

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### InChIKey

QTQAWLPCGQOSGP-KSRBKZBZSA-N

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### 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

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### Cite This Product

Geldanamycin- FITC (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-113)

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## Biological Description

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### 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

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### Research Areas

Cancer, Heat Shock

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### PubChem ID

5288382

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### 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 $\alpha$  (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  $\alpha$ -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 (IC<sub>50</sub>=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>.

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### References

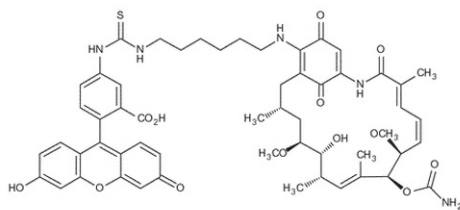
1. Whitesell L., et al. (1994) Proc. Natl. Acad. Sci. USA 91:8324.
2. Neckers L. (2002) Trends Mol. Med. 8: S55.
3. Mabeesh N.J., et al. (2002) Cancer Res. 62: 2478.
4. Chavany C., et al. 1996) Amer. Society Biochem Mol Bio. 9: 4974-4977.
5. Villa R., et al. (2003) Carcinogenesis. 24(5): 851-9.
6. Yamaki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

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## Product Images

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Chemical structure of Geldanamycin- FITC (SIH-113), a Hsp90 inhibitor. CAS #: 30562-34-6. Molecular Formula: C<sub>55</sub>H<sub>63</sub>N<sub>5</sub>O<sub>13</sub>S. Molecular Weight: 560.6 g/mol.



## Product Citations (2)

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### Flow Cytometry

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#### **Heat Shock Protein 90? Is a Potential Serological Biomarker of Acute Rejection after Renal Transplantation.**

Maehana, T. et al. (2016) PLoS One. 11(9):e0162942.

**PubMed ID:** 27631127    **Applications:** Flow Cytometry

### Other Citations

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#### **Fragment Screening Using Capillary Electrophoresis (CEfrag) for Hit Identification of Heat Shock Protein 90 ATPase Inhibitors.**

Austin, C. et al. (2012) J Biomol Screen. 17(7):868-76.

**PubMed ID:** 22573733    **Applications:** Fluorescence Polarization Assay

## Reviews

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There are no reviews yet.