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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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YM-01

Hsp70 Inhibitor
Catalog No. SIH-121



Discovery through partnership | Excellence through quality

Overview

Product Name

YM-01

Description

Hsp70 Inhibitor

Purity

>98% (HPLC)

CAS No.

409086-68-6

Molecular Formula

C11H11CINIOSI

Molecular Weight

417.97

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble in warm water (2 mg/ml)

Source

Synthetic

Appearance

Orange red solid

Safety Phrases

Classification: Caution: Substance not yet fully tested.

Safety Phrases:

S22 - Do not breathe dust

S24/25 - Avoid contact with skin and eyes

Cite This Product

YM-01 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-121)

Biological Description

Alternative Names

2-((Z)-((E)-3-ethyl-5-(3-methylbenzo[d]thiazol-2(3H)-ylidene)-4-oxothiazolidin-2-ylidene)methyl)-1-methylpyridin-1-ium chloride; YM-1

Research Areas

Cancer, Heat Shock

Scientific Background

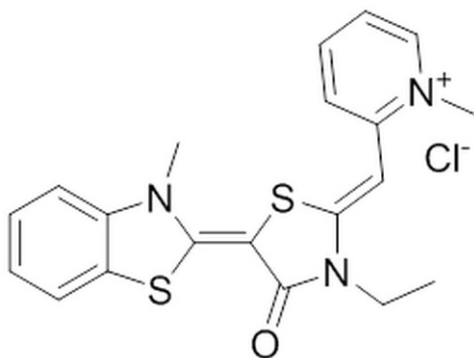
YM-01 is an allosteric Hsp70 inhibitor. It binds with in Hsp70's nucleotide binding domain, adjacent to ATP/ADP binding pocket. It inhibits J-stimulated ATP turnover rate. It blocks Hsc70-bag1 interaction both in vitro and in vivo and enhances binding of Hsp70 to misfolded proteins. It reduces tau levels in tau-overexpressed HeLa cells, endogenous tau in neuroblastoma cells, and endogenous tau in primary neuron from rTg4510 mice, with EC50's of low micromolar. It recovers long-term potentiation deficits in brain slices from rTg4510 mice. It also has anti-cancer activity, with an EC50 value of low micromolar against several cancer cell lines. It destabilizes oncoproteins in cells, including Akt and Raf-1. Looking for more information on HSP70? Visit our new HSP70 Scientific Resource Guide at <http://www.HSP70.com>.

References

1. Wang et al., 2013 Nature Chem. Biol. 9: 112-118.
2. Abisambra et al., 2013 Biol. Psychiatry, 74: 367-374.
3. Koren et al. PLoS One 7:e35566.
4. Morishima et al. 2011 Biochemistry. 50: 7146.
5. Davis et al. 2012 J. Immunol. 189: 4488.

Product Images

Chemical structure of YM-01 (SIH-121), a Hsp70 Inhibitor. CAS #: 409086-68-6. Molecular Formula: C₂₀H₂₀ClN₃O₂S₂. Molecular Weight: 417.97 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.