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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Teprenone

HSP70 Inducer
Catalog No. SIH-526



Discovery through partnership | Excellence through quality

Overview

Product Name

Teprenone

Description

HSP70 Inducer

Purity

>95% (GC)

CAS No.

6809-52-5

Molecular Formula

C11H18O

Molecular Weight

330.6

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inducer

Solubility

Soluble in DMSO (30 mg/ml)

Source

Synthetic

Appearance

Colorless Oil

SMILES

CC(=CCC/C(=C/CC/C(=C/CC/C(=C/CCC(=O)C)/C)/C)C

InChi

InChi=1S/C23H38O/c1-19(2)11-7-12-20(3)13-8-14-21(4)15-9-16-22(5)17-10-18-23(6)24/h11,13,15,17H,7-10,12,14,16,18H2,1-6H3/b20-13+

,21-15+,22-17+

InChIKey

HUCXKZBETONXFO-NJFMWZAGSA-N

Safety Phrases

Classification:

Not a hazardous substance or mixture.

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.

Cite This Product

Teprenone (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-526)

Biological Description

Alternative Names

Geranylgeranylacetone, GGA, 6,10,14,18-Tetramethyl-5,9,13,17-nonadecatetraen-2-one

Research Areas

Cancer, Heat Shock, Cell Signaling, Neuroscience

PubChem ID

5282199

Scientific Background

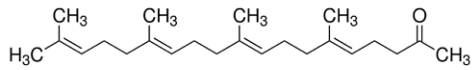
Teprenone can induce expression of HSP70, HSPB8, and HSPB1. Induction of HSP70 expression is protective against the development of various diseases, such as inflammatory bowel disease, hypoxic/ischemic brain injury and spinal and bulbar muscular atrophy (cytoprotective and anti-inflammatory effects) (1, 2). Reports indicate that Teprenone protects against NSAID-induced gastric and intestinal lesions by induction of HSP70 expression (2). Other studies have shown that it induces expression of HSPB8 and HSPB1 and reduces the formation of amyloid oligomers as well as insoluble aggregates in HSPB5 R120G TG mice (3, 4).

References

1. Kobayashi T., Ohta Y., Yoshino J and Nakazawa S. (2001) *Pharmacol Res.* 43(1): 23-30.
 2. Sambroski P., Grzymislowski M. (2015) *Adv Clin Med.* 24(3): 525-530.
 3. Marunouchi T., Inomata S., Sanbe A., Takagi N., Tanonaka K. (2014) *Eur J Pharmacol.* 730: 1401-47.
 4. Sanbe A., et al. (2009) *PLoS One.* 4(4): e5351.
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Product Images

Chemical structure of Teprenone (SIH-526), a HSP70 Inducer. CAS #: 6809-52-5.
Molecular Formula: C₂₃H₃₈O. Molecular Weight: 330.6 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.