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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

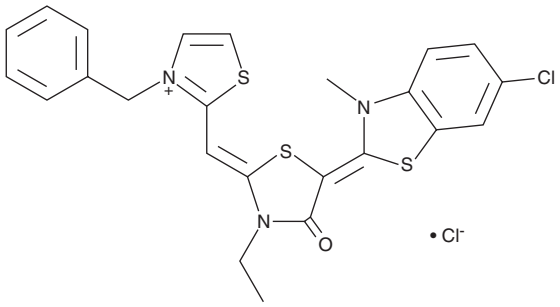
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

JG-98

Item No. 38337

CAS Registry No.:	1456551-16-8
Formal Name:	2-[(Z)-[(5E)-5-(6-chloro-3-methyl-2(3H)-benzothiazolylidene)-3-ethyl-4-oxo-2-thiazolidinylidene]methyl]-3-(phenylmethyl)-thiazolium, monochloride
MF:	$C_{24}H_{21}ClN_3OS_3 \bullet Cl$
FW:	534.5
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

JG-98 is supplied as a solid. A stock solution may be made by dissolving the JG-98 in the solvent of choice, which should be purged with an inert gas. JG-98 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of JG-98 in these solvents is approximately 10, 20, and 3 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of JG-98 can be prepared by directly dissolving the solid in aqueous buffers. JG-98 is slightly soluble in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

JG-98 is an inhibitor of the protein-protein interaction between heat shock protein 70 (Hsp70) and Bcl-2-associated athanogene 3 (BAG-3; IC_{50} = 1.6 µM).[1] It reduces the proliferation of MDA-MB-231 and MCF-7 breast cancer cells (EC_{50}s = 0.4 and 0.7 µM, respectively) and 22 other cancer cell lines (EC_{50}s = 0.3-4 µM).[1,2] It is toxic to mouse embryonic fibroblasts (MEFs; EC_{50} = 22 µM).[2] *In vivo*, JG-98 (3 mg/kg every two days) reduces tumor growth in MCF-7 breast cancer and HeLa cervical cancer mouse xenograft models.[1]

References

1. Li, X., Colvin, T., Rauch, J.N., *et al.* Validation of the Hsp70-Bag3 protein-protein interaction as a potential therapeutic target in cancer. *Mol. Cancer Ther.* **14(3)**, 642-648 (2015).
2. Li, X., Srinivasan, S.R., Connarn, J., *et al.* Analogs of the allosteric heat shock protein 70 (Hsp70) inhibitor, MKT-077, as anti-cancer agents. *ACS Med. Chem. Lett.* **4(11)**, (2013).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM