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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Zuschläge

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- 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

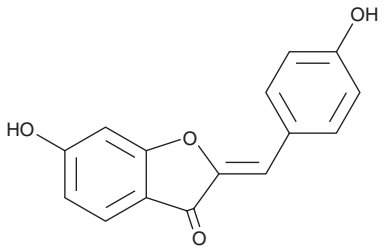
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Hispidol

Item No. 37373

CAS Registry No.:	5786-54-9
Formal Name:	6-hydroxy-2Z-[(4-hydroxyphenyl) methylene]-3(2H)-benzofuranone
Synonyms:	4′,6-Dihydroxyaurone, (Z)-Hispidol
MF:	$C_{15}H_{10}O_4$
FW:	254.2
Purity:	≥98%
UV/Vis.:	λ_{max}: 255, 380 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Synthetic



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

Laboratory Procedures

Hispidol is supplied as a solid. A stock solution may be made by dissolving the hispidol in the solvent of choice, which should be purged with an inert gas. Hispidol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of hispidol in these solvents is approximately 10, 25, and 50 mg/ml, respectively.

Description

Hispidol is an aurone originally isolated from soybeans that has diverse biological activities.[1-4] It is an inhibitor of tyrosinase, monoamine oxidase A (MAO-A), and MAO-B (IC_{50}s= 38.4, 0.26, and 2.45 µM, respectively).[1,3] Hispidol (50 µM) increases catalase and superoxide dismutase (SOD) activity in cell-free assays, as well as decreases intracellular reactive oxygen species (ROS) in, and increases the lifespan of, *C. elegans*.[4] It decreases immobility time in forced swim and tail suspension tests in mice when administered at a dose of 2, 5, and 15 mg/kg.[3]

References

1. Okombi, S., Rival, D., Bonnet, S., *et al.* Discovery of benzylidenebenzofuran-3(2H)-one (aurones) as inhibitors of tyrosinase derived from human melanocytes. *J. Med. Chem.* **49(1)**, 329-333 (2006).
2. Wong, E. Occurrence and biosynthesis of 4′,6-dihydroxyaurone in soybean. *Phytochem.* **5(3)**, 463-467 (1966).
3. Oh, J.M., Lee, H.-S., Baek, S.C., *et al.* Antidepressant-like activities of hispidol and decursin in mice and analysis of neurotransmitter monoamines. *Neurochem. Res.* **45(8)**, 1930-1940 (2020).
4. Lim, H.J., Han, Y.T., Ahn, J.-H., *et al.* Longevity effects of hispidol in *Caenorhabditis elegans*. *Biofactors* **46(6)**, 1041-1048 (2020).

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