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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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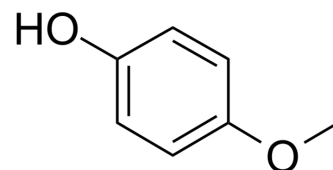
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Mequinol

Cat. No.:	HY-30270
CAS No.:	150-76-5
Molecular Formula:	C ₇ H ₈ O ₂
Molecular Weight:	124.14
Target:	HSP; Estrogen Receptor/ERR
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 100 mg/mL (805.54 mM)
DMSO : ≥ 100 mg/mL (805.54 mM)
* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		8.0554 mL	40.2771 mL	80.5542 mL
	5 mM		1.6111 mL	8.0554 mL	16.1108 mL
	10 mM		0.8055 mL	4.0277 mL	8.0554 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (20.14 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (20.14 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (20.14 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Mequinol (4-Methoxyphenol)yes MercurialisOne of the bioactive ingredients, mainly used for skin discoloration^[1]. Mequinolls an antioxidant that has additive/synergistic effects on carcinogenesis when combined with other phenolic antioxidants. Mequinolalso promote hERαDependent chaperone production with potential estrogenic activity^{[1][2][3]}.

IC ₅₀ & Target	HSP27, GRP94, GRP78 ^[2]	
In Vitro	Mequinol (1-10 µM; 48 h) ignificantly increases the protein levels of HSP27, GRP94, and GRP78/BiPs in HEGO13 and V2 cell^[2]. Mequinol acts function in a hERα-dependent manner and has potential estrogenic activity^[2]/s. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis^[2]	
	Cell Line:	HEGO13 and V2 cells with hERα expression
	Concentration:	1, 10, 100 µM
	Incubation Time:	48 h
	Result:	Significantly increased the protein levels of HSP27, GRP94, and GRP78/BiP at 1 and 10 µM, but not at 100 µM.

REFERENCES

- [1]. Callender VD, et al. Postinflammatory hyperpigmentation: etiologic and therapeutic considerations. Am J Clin Dermatol. 2011 Apr 1;12(2):87-99.
- [2]. Kita K, et al. Increase in the levels of chaperone proteins by exposure to beta-estradiol, bisphenol A and 4-methoxyphenol in human cells transfected with estrogen receptor alpha cDNA. Toxicol In Vitro. 2009 Jun;23(4):728-35.
- [3]. Hirose M, et al. Carcinogenicity of antioxidants BHA, caffeic acid, sesamol, 4-methoxyphenol and catechol at low doses, either alone or in combination, and modulation of their effects in a rat medium-term multi-organ carcinogenesis model. Carcinogenesis. 1998 Jan;19(1):207-12.

Caution: Product has not been fully validated for medical applications. For research use only.

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