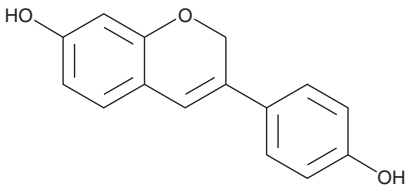
PRODUCT INFORMATION

Idronoxil

Item No. 30783

CAS Registry No.:	81267-65-4
Formal Name:	3-(4-hydroxyphenyl)-2H-1-benzopyran-7-ol
Synonyms:	Haginin E, Phenoxodiol
MF:	$C_{15}H_{12}O_3$
FW:	240.3
Purity:	≥98%
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

Idronoxil is supplied as a solid. A stock solution may be made by dissolving the idronoxil in the solvent of choice, which should be purged with an inert gas. Idronoxil is soluble in the organic solvent DMSO.

Description

Idronoxil is a phenol and derivative of genistein (Item No. 10005167) that has been found in *B. tournefortii* and has anticancer activity.[1-3] It reduces the viability of R182S, R127, Hey, CP70, A2780, R187, R188, and R207 primary ovarian cancer cells, but not non-cancerous ovarian surface epithelial (OSE) cells, when used at a concentration of 10 µg/ml.[2] Idronoxil (1 µg/ml) reduces colony formation and induces apoptosis in R127 and CP70 primary ovarian cancer cells, respectively, and restores sensitivity to Fas-mediated apoptosis in CP70 cells. *In vivo*, idronoxil (50 and 75 mg/kg) increases latency to tumor formation and reduces tumor multiplicity in a rat model of mammary carcinogenesis induced by dimethylbenz[a]anthracene (DMBA).[3]

References

1. Rahmani, R., Bouajila, J., Jouaidi, M., *et al.* African mustard (*Brassica tournefortii*) as source of nutrients and nutraceuticals properties. *J. Food Sci.* **85(6)**, 1856-1871 (2020).
2. Kamsteeg, M., Rutherford, T., Sapi, E., *et al.* Phenoxodiol – an isoflavone analog – induces apoptosis in chemoresistant ovarian cancer cells. *Oncogene* **22(17)**, 2611-2620 (2003).
3. Constantinou, A.I., Mehta, R., and Husband, A. Phenoxodiol, a novel isoflavone derivative, inhibits dimethylbenz[a]anthracene (DMBA)-induced mammary carcinogenesis in female Sprague–Dawley rats. *Eur. J. Cancer* **39(7)**, 1012-1018 (2004).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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