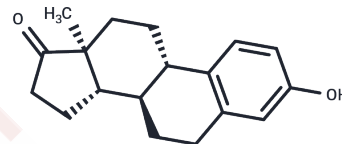


## Estrone

## Chemical Properties

CAS No. :	53-16-7
Formula:	C <sub>18</sub> H <sub>22</sub> O <sub>2</sub>
Molecular Weight:	270.37
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Estrone (Aquacrine) is an aromatized C18 steroid with a 3-hydroxyl group and a 17-ketone, a major mammalian estrogen. It is converted from ANDROSTENEDIONE directly, or from TESTOSTERONE via ESTRADIOL. In humans, it is produced primarily by the cyclic ovaries, PLACENTA, and the ADIPOSE TISSUE of men and postmenopausal women.
Targets(IC50)	Estrogen Receptor/ERR, Estrogen/progestogen Receptor, Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 26.32 mg/mL (97.35 mM), Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6986 mL	18.4932 mL	36.9864 mL
5 mM	0.7397 mL	3.6986 mL	7.3973 mL
10 mM	0.3699 mL	1.8493 mL	3.6986 mL
50 mM	0.074 mL	0.3699 mL	0.7397 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Margat E, et al. J Mol Biol. 2003 Feb 7;326(1):77-92.

Huang S, Xu Y, Guo Y, et al. Aspirin increases estrogen levels in the placenta to prevent preeclampsia by regulating placental metabolism and transport function. Biochemical Pharmacology. 2024; 116561.

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