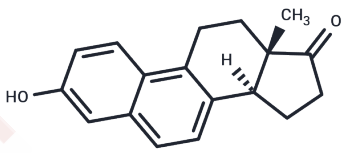
# Data Sheet (Cat.No.T19776)

TargetMol

## Equilenin

### Chemical Properties



CAS No. : 517-09-9

Formula: C18H18O2

Molecular Weight: 266.33

Storage: Store at low temperature
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 | Equilenin (E 400), a natural estrogen, is a specific fluorescent probe for steroid-protein interactions in sex steroid-binding proteins and has a high binding affinity for sex steroid-binding proteins (SBPs) Equilenin is an endocrine disruptor and can be used in the study of breast cancer. |
| Targets(IC50) | Endogenous Metabolite |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 8 mg/mL (30.04 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 3.7547 mL | 18.7737 mL | 37.5474 mL |
| 5 mM | 0.7509 mL | 3.7547 mL | 7.5095 mL |
| 10 mM | 0.3755 mL | 1.8774 mL | 3.7547 mL |
| 50 mM | 0.0751 mL | 0.3755 mL | 0.7509 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

Spink DC, et al. Metabolism of equilenin in MCF-7 and MDA-MB-231 human breast cancer cells. Chem Res Toxicol. 2001 May;14(5):572-81.

Liu X, et al. Effect of halogenated substituents on the metabolism and estrogenic effects of the equine estrogen, equilenin. Chem Res Toxicol. 2003 Jun;16(6):741-9.

Gherezghiher TB, Michalsen B, Chandrasena RE, Qin Z, Sohn J, Thatcher GR, Bolton JL. The naphthol selective estrogen receptor modulator (SERM), LY2066948, is oxidized to an o-quinone analogous to the naphthol equine estrogen, equilenin. Chem Biol Interact. 2012 Mar 5;196(1-2):1-10. doi: 10.1016/j.cbi.2012.01.004. Epub 2012 Jan 28. PubMed PMID: 22290292; PubMed Central PMCID: PMC3319273.

Numazawa M, Osawa Y. Equilin and equilenin biosynthesis. Stereochemistry of aromatization of 3-hydroxy-3,5,7-androstatrien-17-one by horse placenta. J Steroid Biochem. 1987 Jan;26(1):137-43. PubMed PMID: 3821102.