

# 5 $\alpha$ -Pregnane-3 $\beta$ ,6 $\alpha$ -diol-20-one

Catalog No: tcsc0031562



## Available Sizes

**Size:** 5mg

**Size:** 10mg



## Specifications

**CAS No:**

21853-11-2

**Formula:**

C<sub>21</sub>H<sub>34</sub>O<sub>3</sub>

**Pathway:**

Others

**Target:**

Others

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

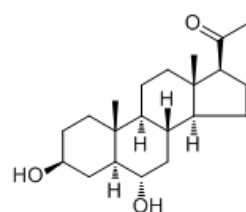
334.49

## Product Description

5 $\alpha$ -Pregnane-3 $\beta$ ,6 $\alpha$ -diol-20-one is a mitogenic metabolite of progesterone, and it can be produced in starved androgen-responsive prostate cancer cells.

**In Vitro:** Progesterone is converted to 5 $\alpha$ -pregnane-3 $\beta$ ,6 $\alpha$ -diol-20-one in human fibroblasts<sup>[1]</sup>. Pregnenolone and progesterone are avidly metabolized to 5 $\alpha$ -pregnan-3 $\beta$ ,6 $\alpha$ -diol-20-one in the C4.2 cell line, with nearly complete conversions at 24 h and 18 h, respectively. Preferential 5 $\alpha$ -pregnan-3 $\beta$ ,6 $\alpha$ -diol-20-one formation from early steroid precursors is independent of CYP17A1 but

rather relies on 3 $\beta$ -HSD activity<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!