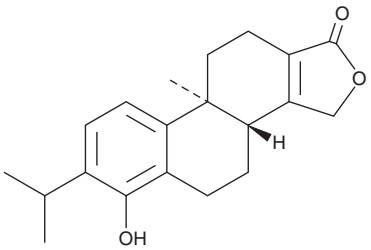
PRODUCT INFORMATION

Triptophenolide

Item No. 34390

CAS Registry No.:	74285-86-2
Formal Name:	(3bR,9bS)-3b,4,5,9b,10,11-hexahydro-6-hydroxy-9b-methyl-7-(1-methylethyl)-phenanthro[1,2-c]furan-1(3H)-one
Synonyms:	Hypolide, (+)-Triptophenolide
MF:	$C_{20}H_{24}O_3$
FW:	312.4
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Plant/*Salvia japonica*



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Triptophenolide is supplied as a solid. A stock solution may be made by dissolving the triptophenolide in the solvent of choice, which should be purged with an inert gas. Triptophenolide is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of triptophenolide in these solvents is approximately 30 mg/ml.

Triptophenolide is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, triptophenolide should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Triptophenolide has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Triptophenolide is a diterpenoid that has been found in *T. wilfordii* and has antiandrogenic activity.[1] It is an antagonist of wild-type and mutant androgen receptors (ARs; IC_{50}s = 260, 388, 480, and 437 nM for wild-type, AR^{T877A}, AR^{F876L}, and $AR^{W741C/T877A}$, respectively, in transactivation assays). Triptophenolide (5 µM) inhibits the growth of, and reduces AR levels in, LNCaP prostate cancer cells.

Reference

1. He, Y., Wu, M., Liu, Y., *et al*. Identification of triptophenolide from *Tripterygium wilfordii* as a pan-antagonist of androgen receptor. *ACS Med. Chem. Lett.* **7(12)**, 1024-1027 (2016).

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