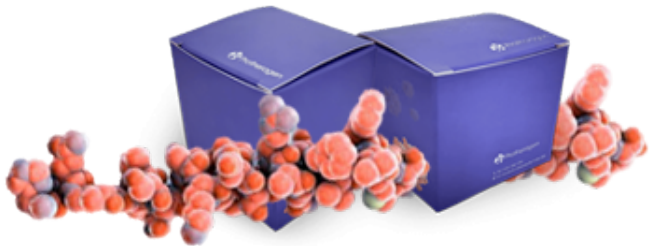
Protheragen
Obesity



(20*S*)-Protopanaxatriol

Cat. No.:	OB0225WX-2552
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and HPLC.
Size:	5 mg; 25 mg; 50 mg; 100 mg

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	(20*S*)-Protopanaxatriol is a neuroprotective ginsenoside metabolite that f unctions as a dual ligand for both the glucocorticoid receptor (GR) and estrogen receptor beta (ER-beta).
Synonym	g-PPT; 20(*S*)-APPT; 34080-08-5; Protopanaxatriol; Protopanaxtriol; 20(*S*)-protopanaxatriol; 20S-Protopanaxatriol; (3*S*,5*R*,6*S*,8*R*,9*R*,10*R*,12*R*,13*R*,14*R*,17*S*)-17-[(2< i>S)-2-hydroxy-6-methylhept-5-en-2-yl]-4,4,8,10,14-pentamethyl-2,3,5,6,7,9,11,12,13,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthrene-3,6,12-triol; dammar-24-ene-3beta,6alpha,12beta,20-tetrol; MFCD11041271
CAS No.	34080-08-5
Compound CID	11468733
Formula	$C_{30}H_{52}O_4$
Formula Weight	476.73

Specification

IUPAC Name	*(3S,5R,6S,8R,9R,10R,12R,13R< /i>,14R,17S)-17-[(2S)-2-Hydroxy-6-methylhept-5-en-2-yl]-4,4 ,8,10,14-pentamethyl-2,3,5,6,7,9,11,12,13,15,16,17-dodecahydro-1H-cyclopenta[a]phenanthrene-3,6,12-triol*
InChI	InChI=1S/C30H52O4/c1-18(2)10-9-13-30(8,34)19-11-15-28(6)24(19)20(31)16-22-27(5)14-12-23(33)26(3,4)25(27)21(32)17-29(22,28)7/h10,19-25,31-34H,9,11-17H2,1-8H3/t19-,20+,21-,22+,23-,24-,25-,27+,28+,29+,30-/m0/s1

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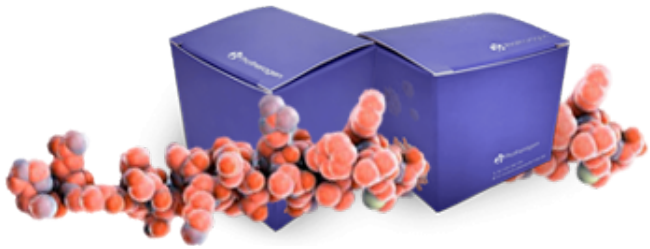

InChI Key	SHCBCKBYTHZQGZ-CJPZEJHVSA-N
SMILES string	CC(=CCC[C@@](C)([C@H]1CC[C@@]2([C@@H]1[C@@H](C[C@H]3[C@]2(C[C@@H]([C@@H]4[C@@]3(CC[C@@H](C4(C)C)O)C)O)C)O)C)O)C
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	(20*S*)-Protopanaxatriol is applied in phytochemical research as a bioactiv e sapogenin to investigate its ability to induce apoptosis and modulate estrogen receptor-mediated signaling pathways.

Library Information

Target	Estrogen/progestogen receptor; Glucocorticoid receptor
Pathways	Endocrinology & Hormones
Plate Number	L6700-05
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	95 mg/mL; 199.27 mM
Ethanol Max Solubility	95 mg/mL
ALogP	4.62
HBA_Count	0
HBD_Count	3
Rotatable Bond	4

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