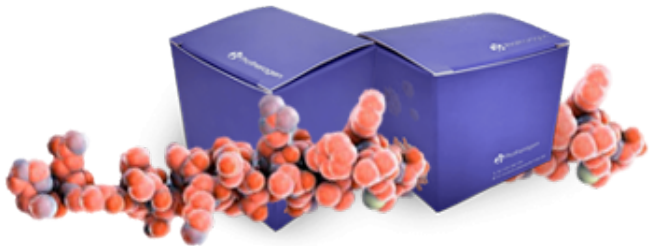
Protheragen
Obesity



Picropodophyllin (PPP)

Cat. No.:	OB0225WX-2698
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and HPLC.
Size:	5 mg; 25 mg; 100 mg; 1 g

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

Product Overview

Description	Picropodophyllin is a selective IGF-1R inhibitor (IC50: 1 nM) that does not cros s-inhibit the insulin receptor (IR) or other related tyrosine kinases like EGFR and PDGFR.
Synonym	AXL1717; 477-47-4; Picropodophyllin; Picropodophyllotoxin; Cyclolignan PPP; Picr o-podophyllin; AXL-1717; (-)PPP; IGF-1R Inhibitor, PPP; Podophyllotoxin picropod ophyllin; (5*R*,5a*R*,8a*S*,9*R*)-5-hydroxy-9-(3,4,5-trimeth oxyphenyl)-5a,6,8a,9-tetrahydro-5H-[2]benzofuro[5,6-f][1,3]benzodioxol-8-one; (5 *R*,5a*S*,8a*R*,9*R*)-9-hydroxy-5-(3,4,5-trimethoxyphenyl)-5 ,8,8a,9-tetrahydrofuro[3',4':6,7]naphtho[2,3-d][1,3]dioxol-6(5aH)-one; Furo(3',4 ':6,7)naphtho(2,3-d)-1,3-dioxol-6(5aH)-one, 5,8,8a,9-tetrahydro-9-hydroxy-5-(3,4 ,5-trimethoxyphenyl)-, (5R-(5-alpha,5a-alpha,8a-alpha,9-alpha))-; (5*R*,5a< i>S,8a*R*,9*R*)-9-hydroxy-5-(3,4,5-trimethoxyphenyl)-5,5a,8a,9-tet rahydrofuro[3',4':6,7]naphtho[2,3-d][1,3]dioxol-6(8H)-one; AXL1717 (Picropodophy llotoxin); (5*R*,5a*S*,8a*R*,9*R*)-9-hydroxy-5-(3,4,5-trimet hoxyphenyl)-5,8,8a,9-tetrahydrofuro(3',4':6,7)naphtho(2,3-d)(1,3)dioxol-6(5aH)-o ne; MFCD01742647
CAS No.	477-47-4
Compound CID	72435
Formula	$C_{22}H_{22}O_8$
Formula Weight	414.41

Specification

Address: 101-4 Colin Dr, Holbrook, NY 11741, USA
Phone: 1-631-506-1393
info@obesityscientific.com

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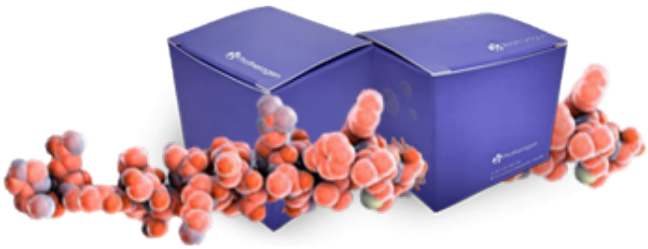

IUPAC Name	(5*R*,5a*R*,8a*S*,9*R*)-5-Hydroxy-9-(3,4,5-trimethoxyphenyl) -5a,6,8a,9-tetrahydro-5*H*-[2]benzofuro[5,6-f][1,3]benzodioxol-8-one
InChI	InChI=1S/C22H22O8/c1-25-16-4-10(5-17(26-2)21(16)27-3)18-11-6-14-15(30-9-29-14)7-12(11)20(23)13-8-28-22(24)19(13)18/h4-7,13,18-20,23H,8-9H2,1-3H3/t13-,18+,19+,20 -/m0/s1
InChI Key	YJGVMLPVUAXIQN-HAEOHBJNSA-N
SMILES string	COC1=CC(=CC(=C1OC)OC)[C@H]2[C@H]3[C@H](COC3=O)[C@H](C4=CC5=C(C=C24)OCO5)O
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	Picropodophyllin is applied in molecular pharmacology as a potent and selective IGF-1R inhibitor to investigate the blockage of insulin-like growth factor signa ling without interfering with the insulin receptor.

Library Information

Target	IGF-1R
Receptor	IGF-1R
Pathways	Protein tyrosine kinase
Plate Number	L6700-09
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	82 mg/mL; 197.87 mM
Ethanol Max Solubility	1 mg/mL
ALogP	2.111
HBA_Count	7
HBD_Count	1
Rotatable Bond	4

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