



Physical Description: Oil

Optical Rotation: $[\alpha]_D^{25} +48$ (c, 0.15 in CH_2Cl_2)

>>**Variant:** (3 β ,12 β ,20*R*)-form

Synonym(s): (20*R*)-Protopanaxadiol

CAS Registry Number: 7755-01-3

Extra CAS Registry Numbers(s): 30636-90-9

Molecular Formula: $\text{C}_{30}\text{H}_{52}\text{O}_3$

Molecular Weight: 460.739

Accurate Mass: 460.391645

Percentage Composition: C 78.21%; H 11.38%; O 10.42%

Melting Point: Mp 236-238°

Optical Rotation: $[\alpha]_D +20.5$ (CHCl_3)

Solubility: BERDY SOL: Sol. MeOH, butanol

Other Data: Artifact

>>**Derivative:** 3-*O*- β -D-Glucopyranoside

Synonym(s): (20*R*)-Ginsenoside Rh₂

CAS Registry Number: 112246-15-8

Molecular Formula: $\text{C}_{36}\text{H}_{62}\text{O}_8$

Molecular Weight: 622.881

Accurate Mass: 622.44447

Percentage Composition: C 69.42%; H 10.03%; O 20.55%

Biological Source: Isol. from *Panax ginseng*

Biological Use/Importance: Antineoplastic

Physical Description: Cryst.

Melting Point: Mp 278-280°

>>**Derivative:** 3-*O*-[β -D-Glucopyranosyl-(1 $\rightarrow$ 2)- β -D-glucopyranoside]

Synonym(s): (20*R*)-Ginsenoside Rg₃

CAS Registry Number: 38243-03-7

Molecular Formula: $\text{C}_{42}\text{H}_{72}\text{O}_{13}$

Molecular Weight: 785.023

Accurate Mass: 784.497295

Percentage Composition: C 64.26%; H 9.24%; O 26.50%

Biological Source: Isol. from *Panax ginseng*

Physical Description: Cryst. (MeOH aq.)

Melting Point: Mp 192-194°

Optical Rotation: $[\alpha]_D^{20} +8.5$ (c, 1.0 in MeOH)

>>**Variant:** (3 β ,12 β ,20*S*)-form

Synonym(s): Protopanaxadiol

Extra CAS Registry Numbers(s): 30636-90-9

Molecular Formula: $\text{C}_{30}\text{H}_{52}\text{O}_3$

Molecular Weight: 460.739

Accurate Mass: 460.391645

Percentage Composition: C 78.21%; H 11.38%; O 10.42%

Biological Source: Sapogenin of Ginsenosides R_{b1}, R_{b2} and R_c from *Panax ginseng*

Physical Description: Cryst.

Melting Point: Mp 199-200°

Solubility: BERDY SOL: Sol. MeOH, butanol