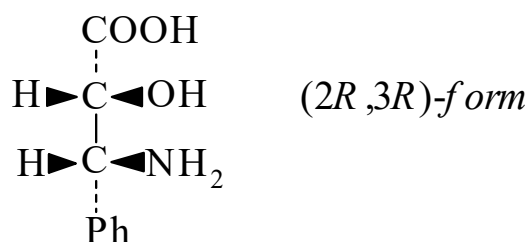




>>Entry Name: 3-Amino-2-hydroxy-3-phenylpropanoic acid

Synonym(s): β -Amino- α -hydroxybenzenepropanoic acid, 9Cl. 3-Amino-3-phenyllactic acid. 3-Phenylisoserine



CAS Registry Number: 6049-55-4

Related CAS Registry Numbers(s): 55325-50-3 55325-53-6

Molecular Formula: $\text{C}_9\text{H}_{11}\text{NO}_3$

Molecular Weight: 181.191

Accurate Mass: 181.073894

Percentage Composition: C 59.66%; H 6.12%; N 7.73%; O 26.49%

>>Variant: (2R,3R)-form

Synonym(s): (+)-*erythro*-form

CAS Registry Number: 7309-54-8

Molecular Formula: $\text{C}_9\text{H}_{11}\text{NO}_3$

Molecular Weight: 181.191

Accurate Mass: 181.073894

Percentage Composition: C 59.66%; H 6.12%; N 7.73%; O 26.49%

Melting Point: Mp 243-244 dec. $^{\circ}$ (variable)

Optical Rotation: $[\alpha]_{\text{D}}^{25} +58.6$ (c, 1.09 in H_2O)

Other Data: A much lower opt. rotn. of +6.4 is given by Hönig *et al* (1990), but the reason for this is not clear

>>Variant: (2R,3S)-form

Synonym(s): (-)-*threo*-form

CAS Registry Number: 136561-53-0

Molecular Formula: $\text{C}_9\text{H}_{11}\text{NO}_3$

Molecular Weight: 181.191

Accurate Mass: 181.073894

Percentage Composition: C 59.66%; H 6.12%; N 7.73%; O 26.49%

Use/Importance: Residue present in, and intermed. in synth. of, the sidechain of TaxolTM [JNQ02-J](#)

Physical Description: Solid

Melting Point: Mp 224-226 $^{\circ}$. Mp 238 $^{\circ}$ (dec.)

Optical Rotation: $[\alpha]_{\text{D}} -14.9$ (c, 0.55 in 6M HCl). $[\alpha]_{\text{D}}^{25} -14.5$ (c, 0.37 in MeOH) (as hydrochloride)

Other: Celgene 6860-00

>>Derivative: *N*-Benzoyl

CAS Registry Number: 132201-33-3

Molecular Formula: $\text{C}_{16}\text{H}_{15}\text{NO}_4$

Molecular Weight: 285.299

Accurate Mass: 285.100109

Percentage Composition: C 67.36%; H 5.30%; N 4.91%; O 22.43%

Biological Source: Isol. from *Taxus baccata*. Taxol sidechain residue

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 177-178 $^{\circ}$

Optical Rotation: $[\alpha]_{\text{D}}^{25} -36.3$ (c, 0.73 in EtOH)

>>Variant: (2S,3R)-form

Synonym(s): (+)-*threo*-form

CAS Registry Number: 62075-28-9

Molecular Formula: $\text{C}_9\text{H}_{11}\text{NO}_3$

Molecular Weight: 181.191

Accurate Mass: 181.073894

Percentage Composition: C 59.66%; H 6.12%; N 7.73%; O 26.49%

Melting Point: Mp 256-257 dec. $^{\circ}$

Optical Rotation: $[\alpha]_{\text{D}}^{25} +14.9$ (c, 0.74 in 6M HCl)

Other: Celgene 6861-00