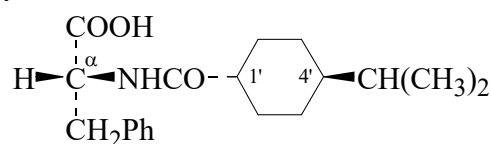




>>Entry Name: Nateglinide, BAN, INN, USAN

Synonym(s): *N*-[[4-(1-Methylethyl)cyclohexyl]carbonyl]phenylalanine, 9Cl. Fastic. Starlix. Starsis. A 4166. DJN 608



($\alpha R, 1'RS, 4'RS$)-form

CAS Registry Number: 105746-37-0

Related CAS Registry Numbers(s): 173653-89-9

Molecular Formula: C₁₉H₂₇NO₃

Molecular Weight: 317.427

Accurate Mass: 317.199094

Percentage Composition: C 71.89%; H 8.57%; N 4.41%; O 15.12%

Biological Use/Importance: Oral hypoglycaemic agent. Antidiabetic agent, stimulates insulin release in pancreatic β -cells

Other Data: Analogue of Meglitinide [BLB82-M](#)

>>Variant: ($\alpha R, 1'RS, 4'RS$)-form

Synonym(s): D-*trans*-form

CAS Registry Number: 105816-04-4

Molecular Formula: C₁₉H₂₇NO₃

Molecular Weight: 317.427

Accurate Mass: 317.199094

Percentage Composition: C 71.89%; H 8.57%; N 4.41%; O 15.12%

Physical Description: Cryst. (MeOH aq.)

Melting Point: Mp 127-128°

Optical Rotation: $[\alpha]_D^{20} -9$ (c, 1.0 in MeOH)

Other Data: Pharmacol. active isomer

>>Derivative: Me ester

CAS Registry Number: 105746-47-2

Molecular Formula: C₂₀H₂₉NO₃

Molecular Weight: 331.454

Accurate Mass: 331.214744

Percentage Composition: C 72.47%; H 8.82%; N 4.23%; O 14.48%

Melting Point: Mp 137-138°

Optical Rotation: $[\alpha]_D^{20} +8.8$ (c, 1.0 in MeOH)

>>Variant: ($\alpha R, 1'RS, 4'SR$)-form

Synonym(s): D-*cis*-form

CAS Registry Number: 105816-06-6

Molecular Formula: C₁₉H₂₇NO₃

Molecular Weight: 317.427

Accurate Mass: 317.199094

Percentage Composition: C 71.89%; H 8.57%; N 4.41%; O 15.12%

Physical Description: Cryst. (MeOH aq.)

Melting Point: Mp 111-112°

Optical Rotation: $[\alpha]_D^{20} -13.2$ (c, 1 in MeOH)

Other Data: Inactive isomer

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