



Formula: C<sub>19</sub>H<sub>27</sub>NO<sub>3</sub>

MW: 317.43

CAS: 105816-04-4

MDL NUMBER: MFCD00875706

Smiles: CC(C)C1CCC(CC1)C(=O)NC(Cc1ccccc1)C(O)=O

**THERAPEUTIC CATEGORY:** Nateglinide lowers blood glucose by stimulating the release of insulin from the pancreas. It achieves this by closing ATP-dependent potassium channels in the membrane of the  $\beta$  cells. This depolarizes the  $\beta$  cells and causes voltage-gated calcium channels to open. The resulting calcium influx induces fusion of insulin-containing vesicles with the cell membrane, and insulin secretion occurs.

ACCEPTORS: 3

DONORS: 2

ROTATION BONDS: 6

N+O: 4

Chiral Centers: 1

LogP: 5.85

LogS: -5.03

LIPINSKI: 4

Synonyms:

(-)-n-(trans-4-isopropylcyclohexanecarbonyl)-d-phenylalanine;ay4166;Nateglinide(H);trans-d-phenylalanin;trans-n-((4-(1-methylethyl)cyclohexyl)carbonyl)-d-phenylalanine;3-phenyl-2-(4-propyl-2-ylcyclohexyl)carbonylamino-propanoic acid;A-4166;STARLIX

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EINECS:

Product Categories:Active Pharmaceutical Ingredients;API;APIs;Health & Beauty;Amino Acids & Derivatives;Intermediates & Fine Chemicals;Pharmaceuticals Nateglinide

Chemical Properties: mp 137-141C storage temp. Room temp

CAS DataBase Reference: 105816-04-4(

CAS DataBase Reference: ) Xn Risk Statements 22 Safety Statements 24/25-36 RTECS SQ7318950 Nateglinide Nateglinide

Usage And Synthesis:

Chemical Properties: Crystalline Solid UsageAn Amino-acid derivative that stimulates insulin secretion. Used as an antidiabetic Nateglinide

