

Product Data Sheet

Product Name: Repaglinide

Cat. No.: GC16036

Chemical Properties

Cas. No. 135062-02-1

Chemical Name 2-ethoxy-4-[2-[[[(1S)-3-methyl-1-(2-piperidin-1-ylphenyl)butyl]amino]-2-oxoethyl]benzoic acid

SMILES CCOC1=C(C=CC(=C1)CC(=O)NC(CC(C)C)C2=CC=CC=C2N3CCCCC3)C(=O)O

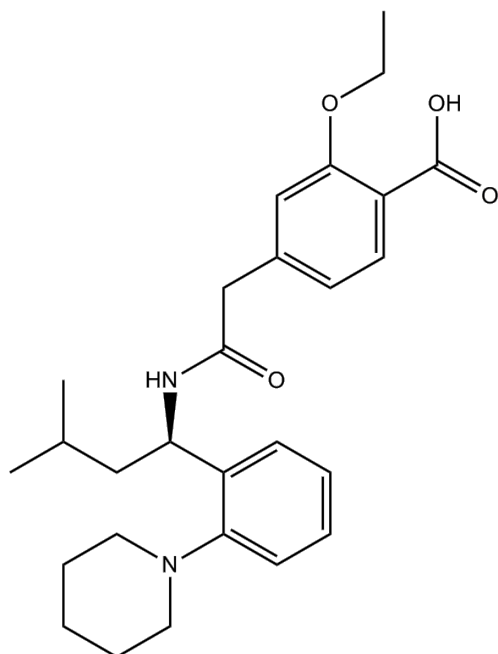
Formula $C_{27}H_{36}N_2O_4$ M.Wt 452.59

Solubility $\geq 17\text{mg/mL}$ in DMSO, ≥ 16.73 mg/mL in EtOH with ultrasonic Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Caution: Product has not been fully validated for medical applications. For research use only.

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Repaglinide is an insulin secretagogue for the treatment of type-2 diabetes mellitus[1].

Repaglinide reduces postprandial glucose levels by enhancing the early phase of insulin secretion and increasing the total amount of insulin secreted[1].

Repaglinide (AG-EE 623ZW) is very rapidly absorbed (t_{max} less than 1 hour) with a $t_{1/2}$ of less than one hour. Furthermore, Repaglinide is inactivated in the liver and more than 90 % excreted via the bile. Repaglinide (1 mg/kg p.o.) is effective ($P < 0.001$) as an insulin-releasing agent in a rat model (low-dose streptozotocin) of type 2 diabetes.

References:

[1]. Wang LC, et al. Characteristics of repaglinide and its mechanism of action on insulin secretion in patients with newly diagnosed type-2 diabetes mellitus. *Medicine (Baltimore)*. 2018 Sep;97(38):e12476.

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