Product datasheet

Teneligliptin, DPP-4 inhibitor ab235551

Overview

Product name: Teneligliptin, DPP-4 inhibitor

Description: Potent, long-lasting DPP-4 inhibitor

Biological description: Potent, long-lasting DPP-4 (dipeptidylpeptidase-4) inhibitor. Competitively inhibits human plasma, rat plasma, and human recombinant DPP-4 in vitro ($IC_{50} = \sim 1 \text{nM}$). Attenuates lipogenesis in the liver by activating AMPK and downregulating the expression of genes involved in lipogenesis. Improves metabolic abnormalities in a mouse model of postmenopausal obesity.

Purity: > 98%

CAS Number: 760937-92-6

Chemical structure

![Chemical structure image]

Chemical name: ((2S,4S)-4-(4-(3-methyl-1-phenyl-1H-pyrazol-5-yl)piperazin-1-yl)pyrrolidin-2-yl)(thiazolidin-3-yl)methanone

Molecular weight: 426.58

Molecular formula: $C_{22}H_{30}N_{6}O_{3}$

PubChem identifier: 11949652

Storage instructions: Shipped at 4°C. Store at -20°C. Store In the Dark. Store under desiccating conditions.

Solubility overview: Soluble in water to 159.01 mM, in DMSO to 159.01 mM and in ethanol to 27.03 mM.

Handling: Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES: CC1=NN(C(=C1)N2CCN(C2)C3CC(NC3)(C(=O)N4CCSC4)C5=CC=CC5

Overview

Properties

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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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