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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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P32/98

DPPIV/DPP4 inhibitor
Catalog No. SIH-385



Discovery through partnership | Excellence through quality

Overview

Product Name

P32/98

Description

DPPIV/DPP4 inhibitor

Purity

>98%

CAS No.

136259-20-6

Molecular Formula

C₁₁H₁₄N₂O₅

Molecular Weight

260.4

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble in water (20 mg/ml) or DMSO (25 mg/ml)

Source

Synthetic

Appearance

White solid

SMILES

CCC(C)C(=O)N1CCSC1)N.C(=CC(=O)O)C(=O)O

InChi

InChi=1S/C9H18N2O5.C4H4O4/c1-3-7(2)8(10)9(12)11-4-5-13-6-11;5-3(6)1-2-4(7)8/h7-8H,3-6,10H2,1-2H3;1-2H,(H,5,6)(H,7,8)/b;2-1+

InChIKey

ZSOPWZQRZHWYFY-WLHGVMRLSA-N

Safety Phrases

Classification: Caution. Substance not yet fully tested.

Safety Phrases:

S22 - Do not breathe dust

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

S24/25 - Avoid contact with skin and eyes

Cite This Product

P32/98 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-385)

Biological Description

Alternative Names

3-N-[[[(2S,3S)-2-Amino-3-methylpentanoyl]-1,3-thiazolidine. hemi-fumarate, (2S,3S)-2-Amino-3-methyl-1-(1,3-thiazolidin-3-yl)pentan-1-one fumarate

Research Areas

Cell Signaling

PubChem ID

77519185

Scientific Background

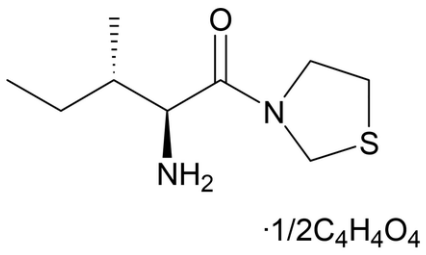
P32/98 (Ile-thiazolidide) is a specific, competitive transition-state substrate analog inhibitor of dipeptidyl peptidase IV (DPIV; DPPIV; CD26), with a K_i of 130 nM (1-3). Useful in diabetes research. Has been used in vivo (10mg/kg orally twice daily)(4-7) and in tissue culture (1-10 μ M) (8).

References

1. Schön E., et al. (1991) Biol. Chem. Hoppe Seyler. 372(5): 305-11.
 2. Pederson R.A., et al. (1998) Diabetes. 47(8): 1253-8.
 3. Lankas G.R., et al. (2005) Diabetes. 54(10): 2988-94.
 4. Pospisilik J.A., et al. (2002) Diabetes. 51(4): 943-50.
 5. Pospisilik J.A., et al. (2002) Diabetes. 51(9): 2677-83.
 6. Pospisilik J.A., et al. (2003) Diabetes. 52(3): 741-50.
 7. Meyer A., et al. (1993) J. Chromatogr. B. 796(2): 401-11.
 8. Girardi A.C.C., et al. (2004) Am. J. Physiol. Cell. Physiol. 287(5): C1238-45.
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Product Images

Chemical structure of P32/98 (SIH-385), a DPPIV/DPP4 inhibitor. CAS #: 136259-20-6.
Molecular Formula: C₉H₁₈N₂O₅ · 0.5 C₄H₄O₄. Molecular Weight: 260.4 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.