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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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KT 5823

PKG kinase inhibitor
Catalog No. SIH-458



Discovery through partnership | Excellence through quality

Overview

Product Name

KT 5823

Description

PKG kinase inhibitor

Purity

>98% (TLC)

CAS No.

126643-37-6

Molecular Formula

C11H11NO1

Molecular Weight

495.5

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

Soluble in DMSO (20 mg/ml), dimethyl formamide (20 mg/ml) and ethyl acetate (5 mg/ml)

Source

Synthetic

Appearance

White solid

SMILES

[N]47C1=C(C6=C(C2=C1[N](C3=CC=CC=C23)[C@@H]5O[C@]4([C@@](C5)(OC)C(=O)OC)C(N(C6)C)=O)C8=C7C=CC=C8

InChI

InChI=1S/C29H25N3O5/c1-28-29(36-4,27(34)35-3)13-20(37-28)31-18-11-7-5-9-15(18)22-23-17(14-30(2)26(23)33)21-16-10-6-8-12-19(16)

32(28)25(21)24(22)31/h5-12,20H,13-14H2,1-4H3

InChIKey

QTYMDECKVKSGSM-UHFFFAOYSA-N

Safety Phrases

Classification:

Not a hazardous substance or mixture.

Safety Phrases:

S22 - Do not breathe dust.

S24/25 - Avoid contact with skin and eyes.

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

Cite This Product

KT 5823 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-458)

Biological Description

Alternative Names

(9S,10R,12R)-2,3,9,10,11,12-Hexahydro-10-methoxy-2,9-dimethyl-1-oxo-9,12-epoxy-1H-diindolo[1,2,3-fg:3',2',1'-kl]pyrrolo[3,4-i][1,6]benzodiazocine-10-carboxylic acid, methyl ester

Research Areas

Cancer, Apoptosis, Cancer Growth Inhibitors, Cell Signaling, Tyrosine Kinase Inhibitors

PubChem ID

3843

Scientific Background

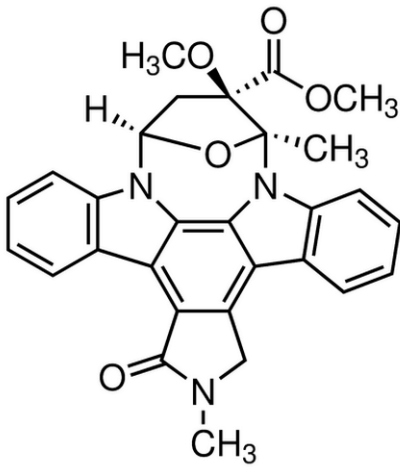
KT5823 is a potent, selective, and reversible inhibitor of Protein Kinase G (PKG). It is a derivative of K-252a. KT5823 has been shown to inhibit SNP-stimulated PKG activity in dispersed smooth muscle cells. It has also been observed to dose-dependently inhibit spontaneous apoptosis of neutrophils.

References

1. Murthy K.S., & Makhlouf G.M. (1995) Am J. Phys. 268(1 Pt 1): C171180.
2. Brunetti M., et al. (2002) Biochem. Biophys. Res. Comm. 297(3): 498501.
3. Kase H., et al. (1987) Biochem. Biophys. Res. Comm. 142(2): 436440.

Product Images

Chemical structure of KT 5823 (SIH-458), a PKG kinase inhibitor. CAS #: 126643-37-6.
Molecular Formula: C₂₉H₂₅N₃O₅. Molecular Weight: 495.5 g/mol.



Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.