

## Product datasheet

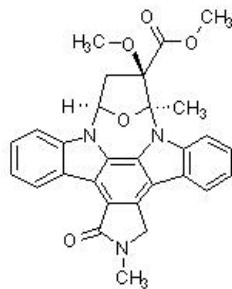
# KT5823, inhibitor of PKG ab120423

[2 References](#) [1 Image](#)

### Overview

|                               |  |
|-------------------------------|--|
| <b>Product name</b>           | KT5823, inhibitor of PKG   |
| <b>Description</b>            | Potent, selective inhibitor of PKG   |
| <b>Biological description</b> | Potent, selective, reversible inhibitor of Protein Kinase G (PKG) ( $K_i = 234$ nM). Derivative of K252, selective over PKA and PKC ( $K_i$ values are $>10$ and $4$ $\mu$ M, respectively). Prevents increased phosphorylation of regulators of G-protein-signalling <i>in vivo</i> . |
| <b>CAS Number</b>             | 126643-37-6  |

### Chemical structure



### Properties

|                             |  |
|-----------------------------|--|
| <b>Chemical name</b>        | (9 <i>S</i> ,10 <i>R</i> ,12 <i>R</i> )-2,3,9,10,11,12-Hexahydro-10-methoxy-2,9-dimethyl-1-oxo-9,12-epoxy-1 <i>H</i> -diindolo[1,2,3- <i>fg</i> :3',2',1'- <i>kl</i> ]pyrrolo[3,4- <i>l</i> ][1,6]benzodiazocine-10-carboxylic acid, methyl ester  |
| <b>Molecular weight</b>     | 495.53   |
| <b>Molecular formula</b>    | C <sub>29</sub> H <sub>25</sub> N <sub>3</sub> O <sub>5</sub>  |
| <b>PubChem identifier</b>   | 108152   |
| <b>Storage instructions</b> | Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.   |
| <b>Solubility overview</b>  | Soluble in ethanol and in DMSO   |
| <b>Handling</b>             | 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 <a href="#">frequently asked</a>  |

[questions \(FAQ\) page](#) for more details.

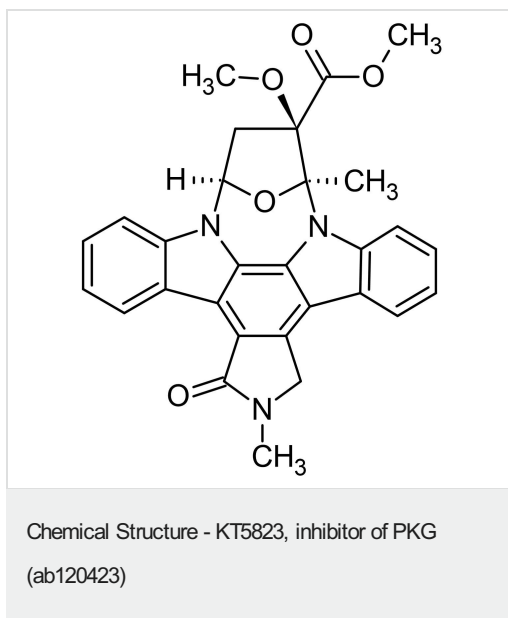
**SMILES**

O=C(OC)[C@]8(C[C@H]7O[C@]8(C)N4C3C1N7C6CCCC6C1C2C(CN(C)C2=O)C3C5CCCC45)OC

**Source**

Synthetic

## Images



2D chemical structure image of ab120423, KT5823, inhibitor of PKG

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

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