Print Date: Sep 16th 2020

Certificate of Analysis

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Product Name: **Zardaverine** **Catalog No.: 1046** **Batch No.: 5**

CAS Number: 101975-10-4

IUPAC Name: 6-[4-(Difluoromethoxy)-3-methoxyphenyl]-3(2*H*)-pyridazinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{12}H_{10}F_2N_2O_3$

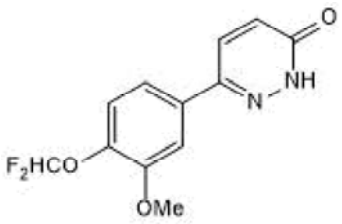
Batch Molecular Weight: 268.22

Physical Appearance: Pale yellow solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.74	3.76	10.44
Found	53.44	3.75	10.5

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Information

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CAS Number: 101975-10-4

IUPAC Name: 6-[4-(Difluoromethoxy)-3-methoxyphenyl]-3(2*H*)-pyridazinone

Description:

Phosphodiesterase inhibitor, selective for PDE3 and 4 (IC_{50} values are 0.5 and 0.8 µM respectively).

Physical and Chemical Properties:

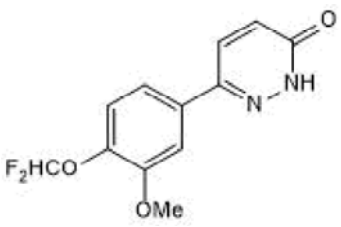
Batch Molecular Formula: $C_{12}H_{10}F_2N_2O_3$

Batch Molecular Weight: 268.22

Physical Appearance: Pale yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Galvan and Schudt (1990) Actions of the phosphodiesterase inhibitor zardaverine on guinea pig ventricular muscle. Naunyn Schmiedebergs Arch.Pharmacol. ***342*** 221. PMID: 1700309.

Kilian *et al* (1989) Is phosphodiesterase inhibition a relevant bronchospasmolytic principle? Agents Actions Suppl. ***28*** 331. PMID: 2683636.