TOCRIS bioscience

Print Date: Apr 28th 2015

# Certificate of Analysis

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**Product Name:** **CE3F4** **Catalog No.: 4793** **Batch No.: 1**

CAS Number: 143703-25-7

IUPAC Name: 5,7-Dibromo-6-fluoro-3,4-dihydro-2-methyl-1(2*H*)-quinolinecarboxaldehyde

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** $C_{11}H_{10}Br_2FNO$

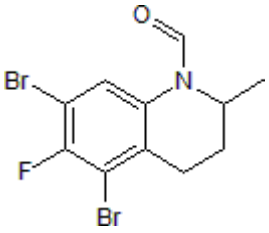
**Batch Molecular Weight:** 351.01

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM
ethanol to 50 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**




## 2. ANALYTICAL DATA

**TLC:** $R_f$ = 0.35 (Ethyl acetate:Petroleum ether [4:1])

**HPLC:** Shows 99.4% purity

**$^1$H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

| | Carbon | Hydrogen | Nitrogen |
|---|---|---|---|
| Theoretical | 37.64 | 2.87 | 3.99 |
| Found | 37.8 | 2.77 | 3.99 |

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**Description:**

Uncompetitive Epac1 inhibitor. Blocks Epac-induced Rap activation and prevents isoprenaline-induced autophagy flux in cardiomyocytes. Has no effect on PKA activity in the presence of cAMP.

**Physical and Chemical Properties:**

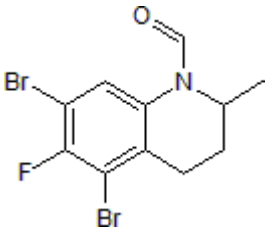
Batch Molecular Formula: $C_{11}H_{10}Br_2FNO$

Batch Molecular Weight: 351.01

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**




**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM
ethanol to 50 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:**

**Courilleau** *et al* (2012) Identification of a tetrahydroquinoline analog as a pharmacological inhibitor of the cAMP-binding protein Epac. J.Biol.Chem. ***287*** 44192. PMID: 23139415.

**Laurent** *et al* (2015) Exchange protein directly activated by cAMP 1 promotes autophagy during cardiomyocyte hypertrophy. Cardiovasc.Res. ***105*** 55. PMID: 25411381.