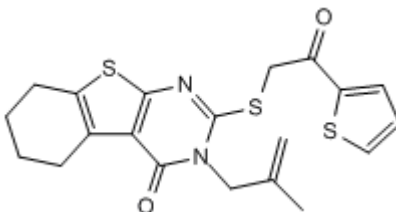


**Product Name:** Eggmanone **Catalog No.:** 5695 **Batch No.:** 1  
**CAS Number:** 505068-32-6  
**IUPAC Name:** 5,6,7,8-Tetrahydro-3-(2-methyl-2-propen-1-yl)-2-[[2-oxo-2-(2-thienyl)ethyl]thio]-[1]benzothieno[2,3-d]pyrimidin-4(3H)-one

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>20</sub>H<sub>20</sub>N<sub>2</sub>O<sub>2</sub>S<sub>3</sub>  
**Batch Molecular Weight:** 416.58  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 20 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.28 (Ethyl acetate:Petroleum ether [9:1])  
**HPLC:** Shows 99.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

|             | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 57.67  | 4.84     | 6.72     |
| Found       | 57.6   | 4.53     | 6.58     |

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Potent and selective phosphodiesterase (PDE) 4 inhibitor (IC<sub>50</sub> = 72 nM). Exhibits >40-fold selectivity over PDE3, PDE10, and PDE11. Displays no significant activity on a panel of 442 kinases, 158 GPCRs and 21 phosphatases. Suppresses hedgehog signaling through PDE antagonism, downstream of smoothened signaling. Reduces transcription of Gli1 and Ptc1.

**Physical and Chemical Properties:**

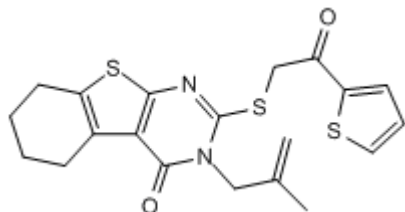
Batch Molecular Formula: C<sub>20</sub>H<sub>20</sub>N<sub>2</sub>O<sub>2</sub>S<sub>3</sub>

Batch Molecular Weight: 416.58

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Williams et al** (2015) An *in vivo* chemical genetic screen identifies phosphodiesterase 4 as a pharmacological target for hedgehog signaling inhibition. Cell Rep. **11** 43. PMID: 25818300.

**Storage:** Store at -20°C

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

DMSO to 20 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.

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