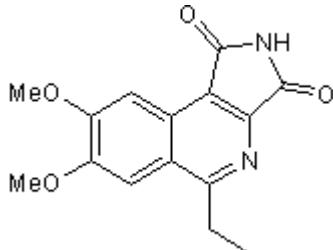


Certificate of Analysiswww.tocris.com**Product Name:** 3F8**Catalog No.:** 4083**Batch No.:** 1

CAS Number: 159109-11-2

IUPAC Name: 5-Ethyl-7,8-dimethoxy-1*H*-pyrrolo[3,4-*c*]isoquinoline-1,3(2*H*)-dione**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₁₅H₁₄N₂O₄·½H₂O**Batch Molecular Weight:** 290.78**Physical Appearance:** Yellow solid**Solubility:** DMSO to 25 mM**Storage:** Store at +4°C**Batch Molecular Structure:****2. ANALYTICAL DATA****HPLC:** Shows 99.6% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 61.95 5.03 9.63

Found 62.08 4.93 9.71

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

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Product Name: 3F8**Catalog No.:** 4083**Batch No.:** 1

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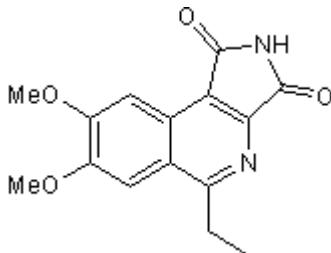
IUPAC Name: 5-Ethyl-7,8-dimethoxy-1*H*-pyrrolo[3,4-*c*]isoquinoline-1,3(2*H*)-dione**Description:**

Potent and selective GSK-3 β inhibitor (IC₅₀ values are 34 and 304 nM in the presence of 10 and 100 μ M ATP respectively).

Physical and Chemical Properties:Batch Molecular Formula: C₁₅H₁₄N₂O₄. $\frac{1}{4}$ H₂O

Batch Molecular Weight: 290.78

Physical Appearance: Yellow solid

Minimum Purity: >99%**Batch Molecular Structure:****Storage:** Store at +4°C**Solubility & Usage Info:**

DMSO to 25 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:

Zhong *et al* (2009) Characterization and development of novel small-molecules inhibiting GSK3 and activating wnt signaling. Mol.Biosyst. **5** 1356. PMID: 19823752.

Zou *et al* (2010) Benzo[e]isoindole-1,3-diones as potential inhibitors of glycogen synthase kinase-3 (GSK-3). Synthesis, kinase inhibitory activity, zebrafish phenotype, and modeling of binding mode. J.Med.Chem. **53** 994. PMID: 20030405.

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