

Product Name: Tiplaxtinin

Catalog No.: 5565

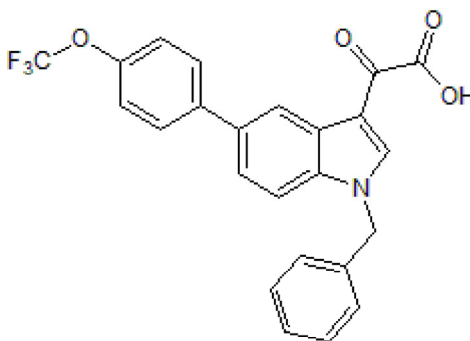
Batch No.: 2

CAS Number: 393105-53-8

IUPAC Name: α -Oxo-1-(phenylmethyl)-5-[4-(trifluoromethoxy)phenyl]-1*H*-indole-3-acetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₁₆F₃NO₄
Batch Molecular Weight: 439.38
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.6	3.67	3.19
Found	65.44	3.63	3.23

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

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Description:

Tiplaxtinin is a plasminogen activator inhibitor-1 (PAI-1) inhibitor ($IC_{50} = 2.7 \mu M$). Induces vascular smooth muscle cell apoptosis in vitro and reduces carotid artery neointimal formation in a rat vascular injury model. Promotes thrombolysis in rat and dog models of acute arterial thrombosis. Orally available.

Physical and Chemical Properties:

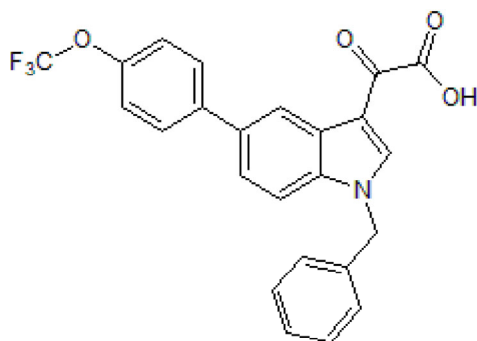
Batch Molecular Formula: $C_{24}H_{16}F_3NO_4$

Batch Molecular Weight: 439.38

Physical Appearance: Yellow solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Simone et al (2015) A small molecule PAI-1 functional inhibitor attenuates neointimal hyperplasia and vascular smooth muscle cell survival by promoting PAI-1 cleavage. *Cell.Signal.* **27** 923. PMID: 25617690.

Elokdah et al (2004) Tiplaxtinin, a novel, orally efficacious inhibitor of plasminogen activator inhibitor-1: design, synthesis, and preclinical characterization. *J.Med.Chem.* **47** 3491. PMID: 15214776.

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