

Certificate of Analysis

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Product Name: 6877002

Catalog No.: 5602

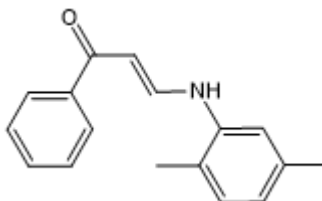
Batch No.: 1

CAS Number: 433249-94-6

IUPAC Name: 3-[(2,5-Dimethylphenyl)amino]-1-phenyl-2-propen-1-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₇NO
Batch Molecular Weight: 251.32
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 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	81.24	6.82	5.57
Found	81.12	6.73	5.59

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

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CAS Number: 433249-94-6

IUPAC Name: 3-[(2,5-Dimethylphenyl)amino]-1-phenyl-2-propen-1-one

Description:

CD40-TRAF6 interaction inhibitor. Suppresses CD40-induced IL-1 β and IL-6 expression in macrophages in vitro. Improves insulin sensitivity, reduces adipose tissue inflammation, and ameliorates hepatosteatosis in diet-induced obese mice.

Physical and Chemical Properties:

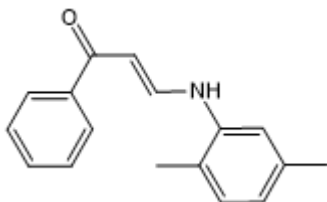
Batch Molecular Formula: C₁₇H₁₇NO

Batch Molecular Weight: 251.32

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°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 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. 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:

Chatzigeorgiou et al (2014) Blocking CD40-TRAF6 signaling is a therapeutic target in obesity-associated insulin resistance. *Proc.Natl.Acad.Sci.U.S.A.* **111** 2686. PMID: 24492375.

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