TOCRIS
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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **TUG 424** **Catalog No.: 3795** **Batch No.: 1**

CAS Number: 1082058-99-8

IUPAC Name: 4-[2-(2-methylphenyl)ethynyl]-benzenepropanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{18}H_{16}O_2$

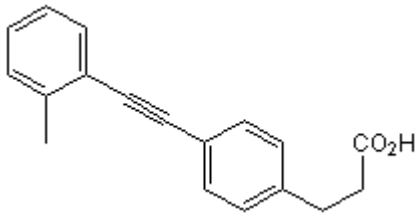
Batch Molecular Weight: 264.32

Physical Appearance: Light brown solid

Solubility: DMSO to 50 mM
ethanol to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.42 (Ethyl acetate:Petroleum ether [1:1])

HPLC: Shows 99.7% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	81.79	6.1	
Found	81.57	6.04	

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CAS Number: 1082058-99-8

IUPAC Name: 4-[2-(2-methylphenyl)ethynyl]-benzenepropanoic acid

Description:

Agonist of the free fatty acid receptor FFA_1 (GPR40) (EC_{50} = 32 nM). Enhances glucose-stimulated insulin secretion in INS-1E cells at 100 nM.

Physical and Chemical Properties:

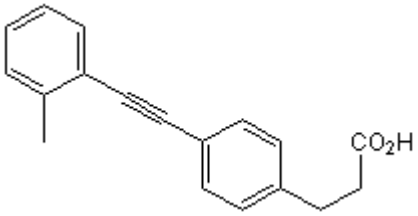
Batch Molecular Formula: $C_{18}H_{16}O_2$

Batch Molecular Weight: 264.32

Physical Appearance: Light brown solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 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:

Christiansen *et al* (2008) Discovery of potent and selective agonists for the free fatty acid receptor 1 (FFA1/GPR40), a potential target for the treatment of type II diabetes. J.Med.Chem. ***51*** 7061. PMID: 18947221.