

Product Name: CVT 10216

Catalog No.: 5164

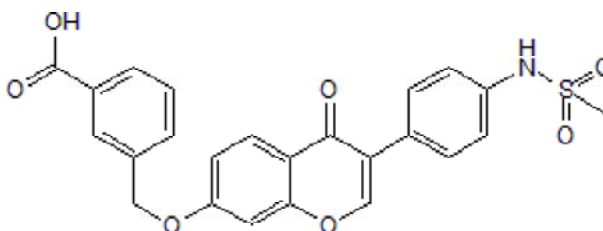
Batch No.: 1

CAS Number: 1005334-57-5

IUPAC Name: 3-[[[3-[4-[(Methylsulfonyl)amino]phenyl]-4-oxo-4H-1-benzopyran-7-yl]oxy]methyl]benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₁₉NO₇S
Batch Molecular Weight: 465.48
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 1eq. NaOH to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.93	4.11	3.01
Found	61.88	4.03	3.07

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

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IUPAC Name: 3-[[[3-[4-[(Methylsulfonyl)amino]phenyl]-4-oxo-4H-1-benzopyran-7-yl]oxy]methyl]benzoic acid

Description:

Potent and selective, reversible inhibitor of aldehyde dehydrogenase 2 (ALDH2) (IC₅₀ values are 29 and 1300 nM for ALDH2 and ALDH1, respectively). Exhibits anxiolytic effects in rat models.

Physical and Chemical Properties:

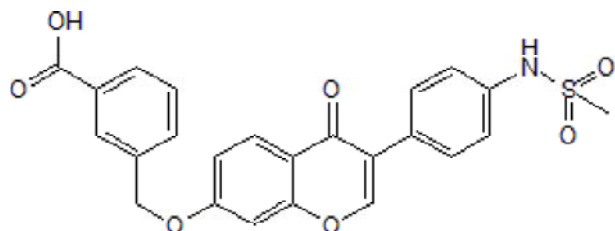
Batch Molecular Formula: C₂₄H₁₉NO₇S

Batch Molecular Weight: 465.48

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

1eq. NaOH 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:

Yao et al (2010) Inhibition of aldehyde dehydrogenase-2 suppresses cocaine seeking by generating THP, a cocaine use-dependent inhibitor of DA synthesis. *Nat.Med.* **16** 1024. PMID: 20729865.

Overstreet et al (2009) A selective ALDH-2 inhibitor reduces anxiety in rats. *Pharmacol.Biochem.Behav.* **94** 255. PMID: 19747934.

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