

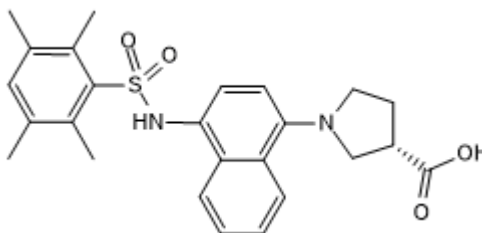
Certificate of Analysis

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Product Name: RA 839 **Catalog No.:** 5707 **Batch No.:** 1
CAS Number: 1832713-02-6
IUPAC Name: (3S)-1-[4-[[[(2,3,5,6-Tetramethylphenyl)sulfonyl]amino]-1-naphthalenyl]-3-pyrrolidinecarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₈N₂O₄S
Batch Molecular Weight: 452.57
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 10 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.36 (Dichloromethane:Methanol [95:5])
HPLC: Shows 98.1% purity
Chiral HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.35	6.24	6.19
Found	66.53	6.23	6.18

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

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Description:

Nrf2 activator; inhibits Nrf2/Keap1 interaction ($K_d = 6 \mu\text{M}$). Suppresses LPS-induced iNOS and nitric oxide expression in macrophages. Anti-inflammatory.

Physical and Chemical Properties:

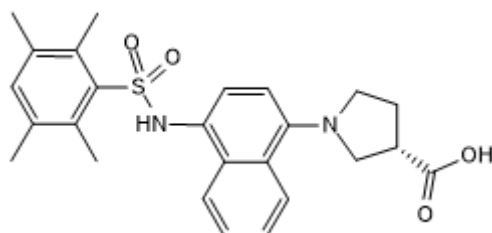
Batch Molecular Formula: $\text{C}_{25}\text{H}_{28}\text{N}_2\text{O}_4\text{S}$

Batch Molecular Weight: 452.57

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 mM with gentle warming

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:

Winkel et al (2015) Characterization of RA839, a noncovalent small molecule binder to Keap1 and selective activator of Nrf2 signaling. *J.Biol.Chem.* **290** 28446. PMID: 26459563.

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