

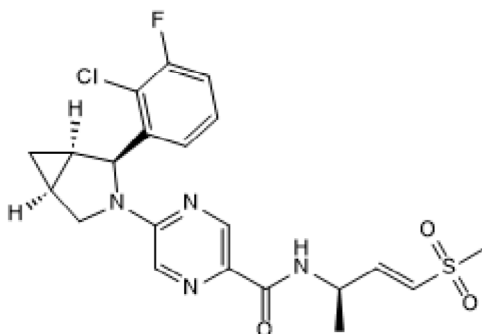
Certificate of Analysis

www.tocris.com

Product Name:	VVD 844	Catalog No.:	8952	Batch No.:	1
CAS Number:	3080226-63-4				
IUPAC Name:	5-((1 <i>R</i> ,2 <i>S</i> ,5 <i>S</i>)-2-(2-Chloro-3-fluorophenyl)-3-azabicyclo[3.1.0]hexan-3-yl)- <i>N</i> -((<i>R</i> , <i>E</i>)-4-(methylsulfonyl)but-3-en-2-yl)pyrazine-2-carboxamide				

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₁ H ₂₂ ClFN ₄ O ₃ S
Batch Molecular Weight:	464.94
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM ethanol to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.2% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon	Hydrogen	Nitrogen
Theoretical	54.25	4.77	12.05
Found	53.64	4.75	11.82

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

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Description:

VVD 844 is a potent inhibitor of the PI3K/p110_α interaction (IC₅₀ = 4 nM) and the phosphorylated-Ser⁴⁷³-AKT (pAKT) pathway (IC₅₀ = 11 nM). It covalently binds cysteine 242 in the RAS domain of PI3K/p110_α and blocks RAS activation of PI3K_α activity in vitro. In vivo, VVD 844 slows growth of RAS mutant tumors and human epidermal growth factor receptor 2 (HER2) -overexpressing tumors, without causing hyperglycemia. Exhibits synergistic effects with Sotorasib (Cat. No. 7713) and Adagrasib (Cat. No. 7488). VVD 844 is orally bioavailable. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

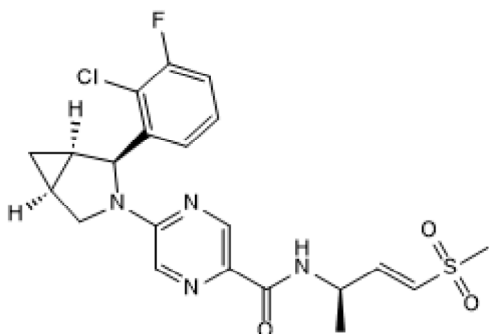
Batch Molecular Formula: C₂₁H₂₂ClFN₄O₃S

Batch Molecular Weight: 464.94

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Klebba et al (2025) Covalent inhibitors of the PI3K_α RAS binding domain impair tumor growth driven by RAS and HER2. *Science* **390** 702. PMID: 41066541.

Storage: Store at -20°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.

Licensing Information:

Sold with permission from Vividion Therapeutics

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