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TOCRIS

Print Date: Mar 19th 2025

Certificate of Analysis

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Product Name: **V 9302 hydrochloride** **Catalog No.: 8057** **Batch No.: 1**

CAS Number: 2416138-42-4

IUPAC Name: (2*S*)-2-Amino-4-[bis[[2-[(3-methylphenyl)methoxy]phenyl]methyl]amino]butanoic acid hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

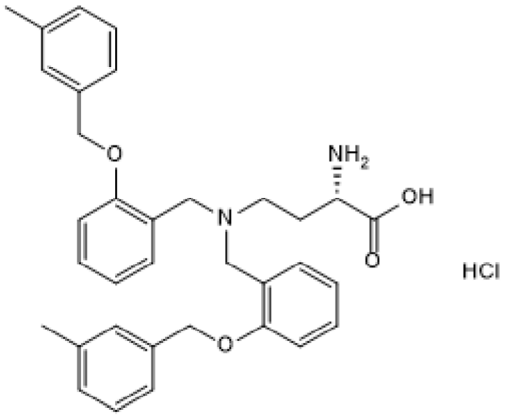
Batch Molecular Weight: 593.17

Physical Appearance: White solid

Solubility: DMSO to 50 mM with gentle warming
ethanol to 50 mM with gentle warming

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.0% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.85	6.97	4.72
Found	68.07	6.74	4.74

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bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

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Description:

V 9302 hydrochloride is an alanine-serine-cysteine transporter 2 (ASCT2, encoded by gene SLC1A5) inhibitor. It inhibits glutamate uptake (IC_{50} = 9.6 µM in HEK-293 cells). It reduces cancer cell growth and proliferation, also increases cell death and oxidative stress in vitro and in vivo. V 9302 hydrochloride inhibits mTORC1 activity, mitochondrial respiration, proliferation and migration of vascular smooth muscle cells (VSMCs).

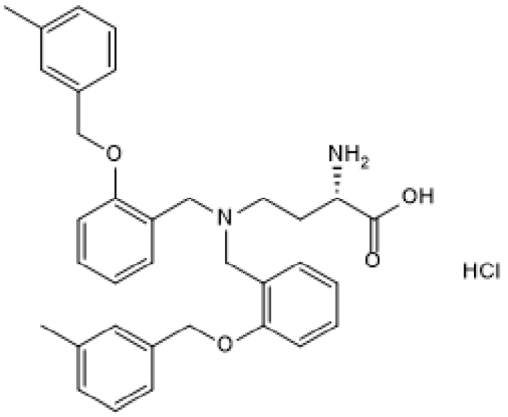
Physical and Chemical Properties:

Batch Molecular Weight: 593.17

Physical Appearance: White solid

Minimum Purity: ≥97%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM with gentle warming
ethanol to 50 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. *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 under license from Vanderbilt University

References:

Li *et al* (2022) Inhibitor of glutamine metabolism V9302 promotes ROSinduced autophagic degradation of B7H3 to enhance antitumor immunity. J.Biol.Chem. ***298*** 101753. PMID: 35189139.

Park *et al* (2021) V-9302 inhibits proliferation and migration of VSMCs, and reduces neointima formation in mice after carotid artery ligation. Biochem.Biophys.Res.Commun. ***560*** 45. PMID: 33965788.

Schulte *et al* (2018) Pharmacological blockade of ASCT2-dependent glutamine transport leads to antitumor efficacy in preclinical models. Nat.Med. ***24*** 194. PMID: 29334372.

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