SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

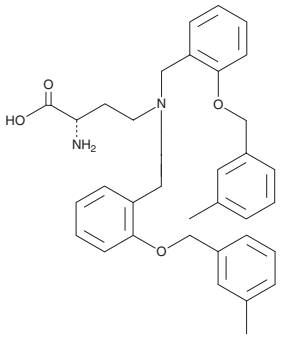
www.szabo-scandic.com

linkedin.com/company/szaboscandic

PRODUCT INFORMATION

V-9302

Item No. 27688



CAS Registry No.:	1855871-76-9
Formal Name:	(2S)-2-amino-4-[*bis*[[2-[(3-methylphenyl)methoxy]phenyl]methyl]amino]-butanoic acid
MF:	$C_{34}H_{38}N_2O_4$
FW:	538.7
Purity:	≥95%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

V-9302 is supplied as a crystalline solid. A stock solution may be made by dissolving the V-9302 in the solvent of choice, which should be purged with an inert gas. V-9302 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of V-9302 in these solvents is approximately 20, 30, and 25 mg/ml, respectively.

V-9302 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, V-9302 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. V-9302 has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

V-9302 is an inhibitor of amino acid transporter 2 (ASCT2).[1] It inhibits glutamine uptake with IC_{50} values of 9 and 9.6 µM for the rat and human transporters, respectively. V-9302 also inhibits glutamine uptake in HEK293 cells and reduces cell viability of a variety of cancer cell lines, including HCT116, HT-29, COLO 205, and RKO cells (EC_{50}s = 8.9, 9.4, 14.5, and 8.3 µM, respectively).[2] It reduces glutamine uptake into tumor tissue and prevents tumor growth in HCT116 and HT-29 mouse xenograft models expressing *K-Ras*^{G13D} and *BRAF*^{V600E} mutations, respectively, when administered at a dose of 75 mg/kg per day for 21 days.

References

1. Schulte, M.L., Khodadadi, A.B., Cuthbertson, M.L., *et al.* 2-Amino-4-bis(aryloxybenzyl)aminobutanoic acids: A novel scaffold for inhibition of ASCT2-mediated glutamine transport. *Bioorg. Med. Chem. Lett.* **26(3)**, 1044-1047 (2016).
2. Schulte, M.L., Fu, A., Zhao, P., *et al.* Pharmacological blockade of ASCT2-dependent glutamine transport leads to antitumor efficacy in preclinical models. *Nat. Med.* **24(2)**, 194-202 (2018).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 05/19/2020

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM