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

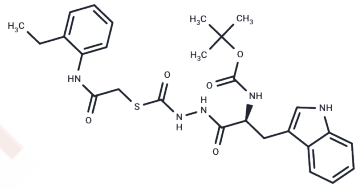
www.szabo-scandic.com

linkedin.com/company/szaboscandic

Data Sheet (Cat.No.T12909)

SID 26681509

Chemical Properties



CAS No. : 958772-66-2

Formula: C27H33N5O5S

Molecular Weight: 539.65

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	SID 26681509 is a selective, reversible and competitive human cathepsin L inhibitor (IC50 of 56 nM).
Targets(IC50)	Cysteine Protease,Parasite
In vitro	After a 4 hr preincubation with cathepsin L, SID 26681509 becomes more potent(IC50 : 1.0 nM). SID 26681509 is determined to be a slow-binding and slowly reversible competitive inhibitor. Through a transient kinetic analysis for single-step reversibility, inhibition rate constants are kon = 24,000 M-1s-1 and koff = 2.2 × 10-5 s-1 (Ki = 0.89 nM). Molecular docking studies are undertaken using the experimentally-derived X-ray crystal structure of papain/CLIK-148[1]. SID 26681509 inhibits papain and cathepsins B, K, S, and V with IC50 values determined after one hour ranging from 618 nM to 8.442 μM [1].
In vivo	survival in murine models of sepsis significantly improved SID 26681509 by and reduces liver damage following warm liver ischemia/reperfusion (I/R) models[2].

Solubility Information

Solubility	DMSO: 55 mg/ml (101.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8531 mL	9.2653 mL	18.5305 mL
5 mM	0.3706 mL	1.8531 mL	3.7061 mL
10 mM	0.1853 mL	0.9265 mL	1.8531 mL
50 mM	0.0371 mL	0.1853 mL	0.3706 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Shah PP, et al. Kinetic characterization and molecular docking of a novel, potent, and selective slow-binding inhibitor of human cathepsin L. Mol Pharmacol. 2008 Jul;74(1):34-41.

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481