



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](https://www.linkedin.com/company/szaboscandic) 

CL 316243

Chemical Properties

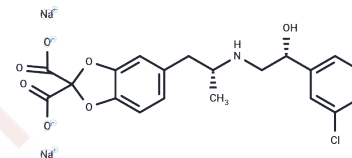
CAS No. : 138908-40-4

Formula: C₂₀H₁₈ClNNa₂O₇

Molecular Weight: 465.79

Appearance: no data available

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



Biological Description

| | |
|---------------|---|
| Description | CL316243 is a highly potent selective agonist of β_3 -adrenoceptor, with a EC ₅₀ of 3 nM. CL316243 is an effective stimulant of adipocyte lipolysis and increases brown adipose tissue thermogenesis and metabolic rate. CL316243 has the potential for the treatment obesity, diabetes and urge urinary incontinence. |
| Targets(IC50) | Adrenergic Receptor |
| In vitro | CL 316243 displays binding affinities with IC ₅₀ values of 1 μ M and 0.6 μ M for rat soleus muscle and rat heart respectively. CL 316243 inhibits spontaneously contracting, isolated rat detrusor strips in a concentration-dependent manner with a mean concentration inhibiting 50% of the maximal response of 2.65 nM [1]. |
| In vivo | CL316243 disodium (subcutaneously injection; 0.1 mg/kg/day; once a day; 1 week) elevates the mRNA and protein expression levels of BAT in UCP1 [2]. |

Solubility Information

| | |
|------------|--|
| Solubility | H ₂ O: 80 mg/mL (171.75 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.1469 mL | 10.7345 mL | 21.4689 mL |
| 5 mM | 0.4294 mL | 2.1469 mL | 4.2938 mL |
| 10 mM | 0.2147 mL | 1.0734 mL | 2.1469 mL |
| 50 mM | 0.0429 mL | 0.2147 mL | 0.4294 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

Bloom JD, et al. Disodium (R,R)-5-[2-[[2-(3-chlorophenyl)-2-hydroxyethyl]-amino] propyl]-1,3-benzodioxole-2,2-dicarboxylate (CL 316,243). A potent beta-adrenergic agonist virtually specific for beta 3 receptors. A promising

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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