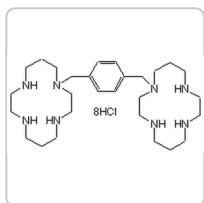


Brighten up your lab coat!

Subscribe to our scientific newsletters and make your lab mates jealous with a shiny 'Magical Flask' pin.

[GET YOURS HERE](#)

Toutes les
photos (1)

Documents

↓ **FDS**

🔍 **COA/CoQ**

239820 ▶ **Sigma-Aldrich.**

CXCR4 Antagonist I, AMD3100 - CAS 155148-31-5 - Calbiochem

★★★★★ (0)

The CXCR4 Antagonist I, AMD3100, also referenced under CAS 155148-31-5, controls the biological activity of CXCR4. This small molecule/inhibitor is primarily used for Cell Signaling applications.

Synonyme(s):

CXCR4 Antagonist I, AMD3100 - CAS 155148-31-5 - Calbiochem, 1,1'-(1,4-Phenylene *bis*(methylene))- *bis*-1,4,8,11-tetraazacyclotetradecane, 8HCl, JM3100, 1,1'-(1,4-Phenylene *bis*(methylene))- *bis*-1,4,8,11-tetraazacyclotetradecane, 8HCl, JM3100

Empirical Formula (Hill Notation):

C₂₈H₅₄N₈ · 8HCl

Numéro CAS:

155148-31-5

Poids moléculaire:

794.47

NACRES:

NA.77

! Le tarif et la disponibilité ne sont pas disponibles actuellement.

Brighten up your lab coat!

Subscribe to our scientific newsletters and make your lab mates jealous with a shiny 'Magical Flask' pin.



GET YOURS HERE

X

Niveau de qualité	100
Essai/Dosage	≥98% (HPLC)
Forme	solid
manufacturer/tradename	Calbiochem®
Conditions de stockage	OK to freeze desiccated (hygroscopic) protect from light
Couleur	off-white
Solubilité	water: 10 mg/mL
Expédié(e)s dans	ambient
Temp. de stockage	2-8°C
InChI	1S/C28H54N8.8ClH/c1-9-29-15-17-31-13-3-21-35(23-19-33-11-1)25-27-5-7-28(8-6-27)26-36-22-4-14-32-18-16-30-10-2-12-34-20-24-36;;;;;;;;;/h5-8,29-34H,1-4,9-26H2;8*1H
InChI key	UEUPDYPUTTUXLJ-UHFFFAOYSA-N

Brighten up your lab coat!

Subscribe to our scientific newsletters and make your lab mates jealous with a shiny 'Magical Flask' pin.



GET YOURS HERE



Description générale

A symmetrical bicyclam compound that antagonizes CXCL12 (SDF1) binding to CXCR4 (IC_{50} = 108 and 245 nM using rat and human CXCR4, respectively) and inhibits SDF1-induced Ca^{2+} flux (by 100% at 100 ng/ml in SUP-T1 and THP-1 cultures) as well as CXCR4-, but not CCR5-, mediated HIV infection ($IC_{50} \leq 200$ nM), while enhancing the binding of SDF1 to CXCR7 (by ~60% at 1 mM with CXCR7-expressing HEK293T cells) and SDF1-induced β -arrestin recruitment to CXCR7 (EC_{50} = 6.48 and 11.8 nM, in the presence and absence of 10 μ M AMD3100, respectively). Administration AMD3100 via intravenous infusion is also reported to result in hematopoietic stem cell mobilization in humans, dogs, and mice *in vivo*. Exhibits no inhibitory effects against chemokine-induced signaling via CXCR1/2/3 or CCR1/2/3/4/5/6/7/8/9.

A symmetrical bicyclam compound that antagonizes CXCL12 (SDF1) binding to CXCR4 (IC_{50} = 108 and 245 nM using rat and human CXCR4, respectively) and inhibits SDF1-induced Ca^{2+} flux (by 100% at 100 ng/ml in SUP-T1 and THP-1 cultures) as well as CXCR4-, but not CCR5-, mediated HIV infection ($IC_{50} \leq 200$ nM), while enhancing the binding of SDF1 to CXCR7 (by ~60% at 1 mM with CXCR7-expressing HEK293T cells) and SDF1-induced β -arrestin recruitment to CXCR7 (EC_{50} = 6.48 and 11.8 nM, in the presence and absence of 10 μ M AMD3100, respectively). Administration AMD3100 via intravenous infusion is also reported to result in hematopoietic stem cell mobilization in humans, dogs, and mice *in vivo*. Exhibits no inhibitory effects against chemokine-induced signaling via CXCR1/2/3 or CCR1/2/3/4/5/6/7/8/9. Also available as a 50 mM solution in H_2O (Cat. No. [239825](#)).

Conditionnement

Packaged under inert gas

Avertissement

Toxicity: Standard Handling (A)

Reconstitution

Brighten up your lab coat!

Subscribe to our scientific newsletters and make your lab mates jealous with a shiny 'Magical Flask' pin.



GET YOURS HERE



Kalatskaya, I., et al. 2009. *Mol. Pharmacol.***77**, 1240.

Pitchford, S.C., et al. 2009. *Cell Stem Cell***4**, 62.

De Clercq, E. 2009. *Biochem. Pharmacol.*, 1655.

Thoma, G., et al. 2008. *J. Med. Chem.***51**, 7915.

De Clercq, E. 2000. *Mol. Pharmacol.***57**, 833.

Informations légales

CALBIOCHEM is a registered trademark of Merck KGaA, Darmstadt, Germany

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

Brighten up your lab coat!

Subscribe to our scientific newsletters and make your lab mates jealous with a shiny 'Magical Flask' pin.



GET YOURS HERE



Certificat de qualité

Saisir un numéro de lot pour rechercher un certificat de qualité (CoQ).

Référence

e.g. T1503

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (CoQ)

Rechercher

Évaluations



Soyez le premier à donner votre avis sur ce produit

Questions

Soyez le premier à poser une question

Brighten up your lab coat!

Subscribe to our scientific newsletters and make your lab mates jealous with a shiny 'Magical Flask' pin.



GET YOURS HERE



Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

[Contacter notre Service technique](#)

Le contenu de cette page vous a-t-il été utile ?*



Que pouvons-nous faire pour améliorer cette page spécifique de notre site Internet ?

Envoyer