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Produktinformation

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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

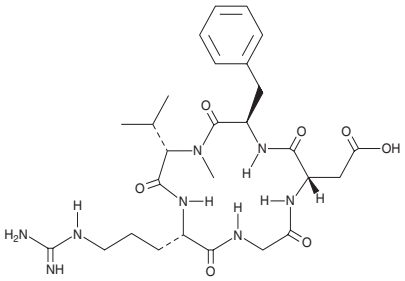
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

Cilengitide

Item No. 22289

CAS Registry No.:	188968-51-6
Formal Name:	cyclo(L-arginylglycyl-L-α-aspartyl-D-phenylalanyl-N-methyl-L-valyl)
Synonym:	EMD 121974
MF:	$C_{27}H_{40}N_8O_7$
FW:	588.7
Purity:	≥98%
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

Cilengitide is supplied as a crystalline solid. A stock solution may be made by dissolving the cilengitide in the solvent of choice. Cilengitide is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of cilengitide in these solvents is approximately 1, 20, and 30 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of cilengitide can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of cilengitide in PBS, pH 7.2, is approximately 0.5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Cilengitide is a cyclo-(Arg-Gly-Asp-D-Phe-Val) (cRGDfV) peptide and integrin αVβ3 receptor antagonist.[1] It inhibits adhesion and induces apoptosis of U87MG and U373MG malignant glioma (MG) cells, but not U251MG cells that lack the integrin αVβ3 receptor, *in vitro* at a concentration of 20 µg/ml. Cilengitide (200 µg/animal per day) delays tumor implantation time, reduces tumor growth, and prolongs survival in a U87MG mouse model of glioblastoma.[2] Formulations containing cilengitide are under clinical investigation for the treatment of malignant glioma and melanomas.

References

1. Chatterjee, S., Matsumura, A., Schradermeier, J., *et al.* Human malignant glioma therapy using anti-α$V\beta_3$ integrin agents. *J. Neurooncol.* **46(2)**, 135-144 (2000).
2. Yamada, S., Bu, X.-Y., Khankaldyyan, V., *et al.* Effect of the angiogenesis inhibitor cilengitide (EMD 121974) on glioblastoma growth in nude mice. *Neurosurgery* **59(6)**, 1304-1312 (2006).

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