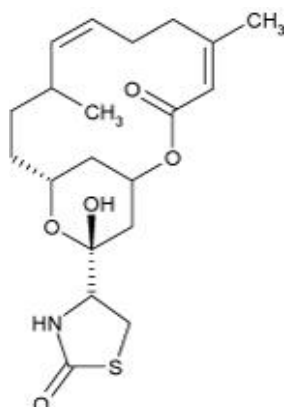


PRODUCT DATA SHEET



ALX-350-036

Latrunculin B



Product Numbers/Sizes

ALX-350-036-C100 100 µg
ALX-350-036-M001 1 mg

Product Specifications

FORMULA: $C_{20}H_{29}NO_5S$
MW: 395.5
CAS NUMBER: 76343-94-7
MERCK INDEX: 14: 5378
SOURCE/HOST: Isolated from *Latrunculia magnifica*.
PURITY: ≥97% (HPLC)
APPEARANCE: White to light yellow solid.
SOLUBILITY: Soluble in DMSO (25mg/ml) or 100% ethanol (25mg/ml).
SHIPPING: AMBIENT
LONG TERM STORAGE: -20°C
HAZARD: TOXIC.

Product Description

Structurally unique marine toxin. Actin filament modulator. 10- to 100-fold more potent than cytochalasins. Whereas cytochalasin D (Prod. No. ALX-380-031) induces dissolution of F-actin and stress fiber contraction in fibroblasts in culture, latrunculin B causes a shortening and thickening of stress fibers.

Product Specific Literature References:

Latrunculins: novel marine toxins that disrupt microfilament organization in cultured cells: I. Spector, et al.; Science **219**, 493 (1983)
Latrunculin inhibits the microfilament-mediated processes during fertilization, cleavage and early development in sea urchins and mice: G. Schatten, et al.; Exp. Cell. Res. **166**, 191 (1986)
Inhibition of actin polymerization by latrunculin: M. Coue, et al.; FEBS Lett. **213**, 316 (1987)
Latrunculin A is a potent inhibitor of phagocytosis by macrophages: C.A. de Oliveira & B. Mantovani; Life Sci. **43**, 1825 (1988)
Latrunculins--novel marine macrolides that disrupt microfilament organization and affect cell growth: I. Comparison with cytochalasin D: I. Spector, et al.; Cell Motility & Cytoskeleton **13**, 127 (1989)
Effects of cytochalasin D and latrunculin B on mechanical properties of cells: T. Wakatsuki, et al.; J. Cell. Sci. **114**, 1025 (2001)
The lateral mobility of NHE3 on the apical membrane of renal epithelial OK cells is limited by the PDZ domain proteins NHERF1/2, but is dependent on an intact actin cytoskeleton as determined by FRAP: B. Cha, et al.; J. Cell Sci. **117**, 3353 (2004)

Revised: 01-Feb-09

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

MATERIAL SAFETY DATA: This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet.

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NORTH AMERICA

AXXORA, LLC
6181 Cornerstone Court East, Suite 103
San Diego, CA 92121-4727
T (858) 658-0065
Toll Free 800 550 3033
F (858) 550-8825
Toll Free 800 550 8825
E axxora-usa@axxora.com

SWITZERLAND/REST OF WORLD

AXXORA EUROPE
Industriestrasse 17, Postfach
CH-4415 Lausen / Switzerland
T +41 61 926 89 99
F +41 61 926 89 95
E axxora-eu@axxora.com

BENELUX

ENZO LIFE SCIENCES BVBA
Melkerijweg 3
B-2240 Zandhoven
T +32 (0) 3 466 04 20
F +32 (0) 3 466 04 29
E info-be@enzolifesciences.com

GERMANY

AXXORA DEUTSCHLAND GmbH
Marie-Curie-Straße 8
DE-79539 Lörrach
T (07621) 5500 522
F (07621) 5500 523
E axxora-de@axxora.com

UK & IRELAND

AXXORA (UK) LTD.
P.O. Box 6757
Bingham, Nottingham NG13 8LS
T +44 1949 836111
F +44 1949 836222
E axxora-uk@axxora.com

