

## CERTIFICATE OF ANALYSIS

<b>PRODUCT:</b>	<b>(±)-Blebbistatin</b> Inhibitor of non-muscle myosin II [1,2,3,3a-tetrahydro-3a-hydroxy-6-methyl-1-phenyl-4H-pyrrolo[2,3-b]quinolin-4-one], C <sub>18</sub> H <sub>16</sub> N <sub>2</sub> O <sub>2</sub> , M.W. 292.3, CAS# [674289-55-5]
<b>PRODUCT NUMBER:</b>	B-1289
<b>LOT NUMBER:</b>	C1064
<b>APPEARANCE:</b>	A crystalline solid
<b>SOLUBILITY:</b>	Soluble in organic solvents such as DMSO and DMF at 10 mg/ml. Sparingly soluble in aqueous buffers; for maximum solubility in aqueous buffers, dissolve in DMF and then dilute with aqueous buffer of choice. Approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2). Do not store the aqueous solution for more than 1 day.
<b>PURITY (HPLC):</b>	≥ 98%
<b>DESCRIPTION:</b>	(±)-Blebbistatin is a selective cell-permeable inhibitor of non-muscle myosin II ATPases. It rapidly and reversibly inhibits Mg-ATPase activity and <i>in vitro</i> motility of non-muscle myosin IIA and IIB for several species (IC <sub>50</sub> = 0.5-5.0 μM), while poorly inhibiting smooth muscle myosin (IC <sub>50</sub> = 80 μM). Through these effects, blebbistatin blocks apoptosis-related bleb formation, directed cell migration and cytokinesis in vertebrate cells. Blebbistatin is inactivated by UV light, which may be particularly important in fluorescent cell imaging applications.

# A.G. Scientific, Inc.

6450 Lusk Blvd. Suite E102

SAN DIEGO, CA 92121



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**STORAGE & HANDLING:** Store at -20°C.

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: DD