



CERTIFICATE OF ANALYSIS

PRODUCT:	Helenalin Isolated from <i>Arnica chamissonis</i> C ₁₅ H ₁₈ O ₄ , M.W. 262.3, CAS# [6754-13-8]
PRODUCT NUMBER:	H-1300
LOT NUMBER:	B1928
APPEARANCE:	White to off-white solid
SOLUBILITY:	Soluble in DMSO (10mg/ml) or 100% ethanol.
PURITY (HPLC):	≥97%
IDENTITY:	Determined by ¹ H-NMR.
PRODUCT DESCRIPTION:	Potent anti-inflammatory and antineoplastic agent. Induces a CD95 death receptor-independent apoptosis even when the mitochondria protecting proteins Bcl-X _L or Bcl-2 are overexpressed. Also an inhibitor of NF-κB.
STORAGE & HANDLING:	Store at -20°C. <u>WARNING</u> : TOXIC!

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