PROD保健T INFORMATION

**Elasnin**

*Item No. 21481*

**CAS Registry No.:** 68112-21-0  
**Formal Name:** 3,5-dibutyl-6-(1-butyl-2-oxoheptyl)-4-hydroxy-2H-pyranyl-2-one  
**MF:** C_{24}H_{40}O_{4}  
**FW:** 392.6  
**Purity:** ≥95%  
**Supplied as:** A liquid  
**Storage:** -20°C  
**Stability:** ≥2 years  
**Special Conditions:** Light sensitive  
**Item Origin:** Bacterium/Streptomyces sp.

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

**Laboratory Procedures**

Elasnin is supplied as a liquid. A stock solution may be made by dissolving the elasnin in an organic solvent purged with an inert gas. Elasnin is soluble in organic solvents such as methanol and DMSO. The solubility of elasnin in these solvents is approximately 5 mg/ml. Elasnin is also soluble in methylene chloride.

**Description**

Elasnin is a product isolated from certain strains of Streptomyces that acts as a reversible inhibitor of elastase with IC_{50} values of 1.3 and 30 µg/ml for human granulocyte and pancreatic enzymes, respectively.\(^1\) It inhibits human leukocyte elastase, porcine pancreatic elastase, and chymotrypsin with K_{i} values of 93, 69, and 224 µM, respectively.\(^2\)

**References**