

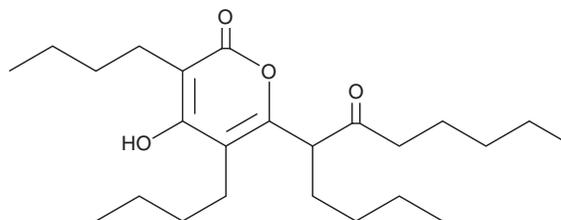
# PRODUCT INFORMATION



## Elasnin

Item No. 21481

**CAS Registry No.:** 68112-21-0  
**Formal Name:** 3,5-dibutyl-6-(1-butyl-2-oxoheptyl)-4-hydroxy-2H-pyran-2-one  
**MF:** C<sub>24</sub>H<sub>40</sub>O<sub>4</sub>  
**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<sub>50</sub> values of 1.3 and 30 µg/ml for human granulocyte and pancreatic enzymes, respectively.<sup>1</sup> It inhibits human leukocyte elastase, porcine pancreatic elastase, and chymotrypsin with K<sub>i</sub> values of 93, 69, and 224 µM, respectively.<sup>2</sup>

### References

1. Ohno, H., Saheki, T., Awaya, J., *et al.* Isolation and characterization of elasnin, a new human granulocyte elastase inhibitor produced by a strain of *Streptomyces*. *J. Antibiot. (Tokyo)* **31(11)**, 1116-1123 (1978).
2. Spencer, R.W., Copp, L.J., and Pfister, J.R. Inhibition of human leukocyte elastase, porcine pancreatic elastase, and chymotrypsin by elasnin and other 4-hydroxy-2-pyrones. *J. Med. Chem.* **28(12)**, 1828-1832 (1985).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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