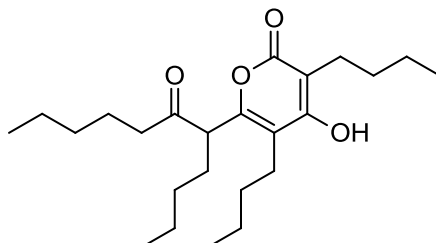


## Elasnin

Code No.: **BIA-E1645**

Pack sizes: **1 mg, 5 mg**



Synonyms :

## Specifications

CAS #	:	<b>68112-21-0</b>
Molecular Formula	:	<b>C<sub>24</sub>H<sub>40</sub>O<sub>4</sub></b>
Molecular Weight	:	<b>392.6</b>
Source	:	<b><i>Streptomyces</i> sp.</b>
Appearance	:	<b>Yellow residue</b>
Purity	:	<b>&gt;95% by HPLC</b>
Long Term Storage	:	<b>-20°C</b>
Solubility	:	<b>Soluble in ethanol, methanol, DMF or DMSO.</b>

## Application Notes

Elasnin was discovered as an inhibitor of human leukocyte elastase from *Streptomyces noboritoensis* by Omura and co-workers at the Kitasato Institute, Japan in 1978. Elasnin is a hydrophobic 4-hydroxypyronone with alkyl chains in the 3, 5 and 6-positions. The selective activity of elasnin for granulocyte elastase provides alternative strategies for developing new actives for the treatment of arthritis, inflammation, emphysema, and pancreatitis.

## References

1. Isolation and characterization of elasnin, a new human granulocyte elastase inhibitor produced by a strain of *Streptomyces*. Ohno H. et al., *J. Antibiot.* 1978, 31, 116.
2. Structure of elasnin, a novel elastase inhibitor. Nakagawa A. et al., *J. Am. Chem. Soc.* 1979, 101, 4386.
3. Substituted 2-pyrone, 2-pyridone, and other congeners of elasnin as potential agents for the treatment of chronic obstructive lung diseases? Groutas W.C., *J. Med. Chem.* 1985, 28, 1106.