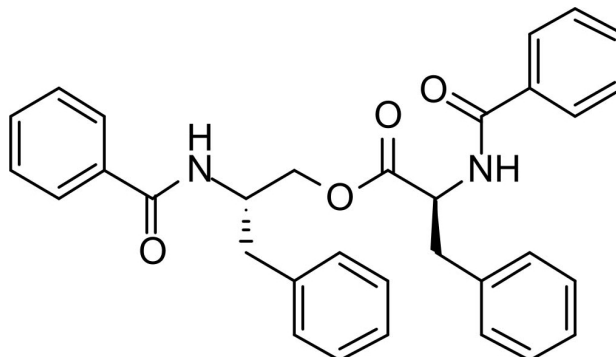


## Asperphenamate

Code No.: BIA-A1643

Pack sizes.: 1mg, 5mg



Synonyms:

-

## Specifications

CAS #	: <b>63631-36-7</b>
Molecular Formula	: <b>C32H30N2O4</b>
Molecular Weight	: <b>506.6</b>
Source	: -
Appearance	: <b>White to off-white solid</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

Asperphenamate is an unusual ester of N-benzoylphenylalanine and N-benzoylphenylalaninol isolated from *Aspergillus flavipes* and first reported by Clark and co-workers in 1977. Since then, asperphenamate has been found in a broad range of *Penicillium* and *Aspergillus* species and even in plants, as a product of endophytic fungi. Asperphenamate has weak antitumor activity. Recently, a more soluble analogue, BBP, was found to induce autophagic cell death in tumor cells, a process modulated by a JNK-dependent Atg4 upregulation involving ROS production.

## References

1. Two metabolites from *Aspergillus flavipes*. Clark A.M. et al., *J. Nat. Prod. (Lloydia)* 1977, 40, 146.
2. Synthesis of asperphenamate, a novel fungal metabolite. Clark A.M. and Hufford C.D., *Phytochem.* 1978, 17, 552.
3. Two new *Penicillium* species *Penicillium buchwaldii* and *Penicillium spathulatum*, producing the anticancer compound asperphenamate. Frisvad J.C., *FEMS Microbiol. Lett.* 2013, 339, 77.