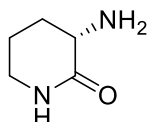


## L-Ornithine lactam

Code No.: **BIA-O2216**

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



Synonyms : (3S)-3-Amino-2-piperidinone

### Specifications

CAS #	: <b>34294-79-6</b>
Molecular Formula	: <b>C<sub>5</sub>H<sub>10</sub>N<sub>2</sub>O</b>
Molecular Weight	: <b>114.15</b>
Source	: <b>Synthetic</b>
Appearance	: <b>White solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in methanol or DMSO</b>

### Application Notes

Ornithine lactam is an endogenous metabolite, which when found in excess in plasma is a measure of a rare autosomal recessive disorder of the urea cycle. Ornithine lactam is used in cosmetics as a skin whitening agent and moisturiser. Ornithine lactam is a biosynthetic precursor of sinefungin. There are no publications on the biological activity of L-ornithine lactam.

### References

1. The hyperornithinemia–hyperammonemia–homocitrullinuria syndrome. Martinelli D. et al. J Rare Dis. 2015, 10, 29.
2. Cosmetic and topical preparations containing ornithine lactam. Suetsugu M. and Yoshida Y. Jpn. Kokai Tokkyo Koho 2000, JP 2000086481 A 20000328.
3. Identification of ornithine-lactam converted from arginine in Streptomyces incarnatus NRRL8089. Fukuda K. et al. Okayama Daigaku Nogakubu Gakujutsu Hokoku 2010, 99, 1.