

## Product Information

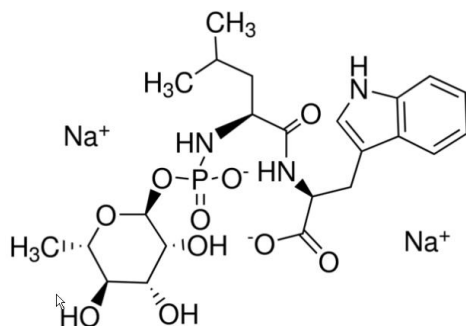
### Phosphoramidon, disodium salt

Catalog Number **R7385**  
Storage Temperature  $-20\text{ }^{\circ}\text{C}$

CAS RN 119942-99-3

Synonyms: N-( $\alpha$ -Rhamnopyranosyloxyhydroxyphosphinyl)-LEU-TRP, disodium salt

#### Product Description



Molecular Formula:  $\text{C}_{23}\text{H}_{32}\text{N}_3\text{Na}_2\text{O}_{10}\text{P}$   
Molecular Weight: 587.47  
Extinction Coefficient for 1% aqueous solution of sodium salt:<sup>1</sup>  
480 (221 nm)  
76 (275 nm, shoulder)  
81 (282 nm)  
69.5 (289.5 nm)

Phosphoramidon is a metallo-endopeptidase inhibitor, which strongly inhibits thermolysin, but weakly inhibits collagenase. It does not inhibit trypsin, papain, chymotrypsin, nor pepsin.<sup>1,2</sup>

Mild hydrolysis of phosphoramidon yields phosphoryl-L-leucyl-L-tryptophan, which is more active than phosphoramidon.<sup>1</sup>

#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

#### Preparation Instructions

Sigma tests the solubility of Phosphoramidon, disodium salt at 50 mg/ml in water yielding a clear to slightly hazy, colorless to light yellow solution. The product is also soluble in methanol and DMSO, and less soluble in ethanol and ethyl acetate; insoluble in benzene, hexane, and chloroform.<sup>1</sup>

Solutions, stored in aliquots at  $-20\text{ }^{\circ}\text{C}$ , are expected to remain active for at least one month.

#### Storage/Stability

Store the product at  $-20\text{ }^{\circ}\text{C}$ . Under these conditions it is expected to remain active for at least two years.

#### References

1. Lorand, L. ed., *Methods in Enzymology*, **45**, 693-695 (1976).
2. Suda, H. et al., *Journal of Antibiotics*, **26**, 621-623 (1973).
3. Umezawa, S. et al., *Tetrahedron Letters*, **1**, 97-100 (1972).
4. Aoyagi, T., and Umezawa, H., *Acta Biol. Med Ger.*, **40**, 1523-1529 (1981).

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