

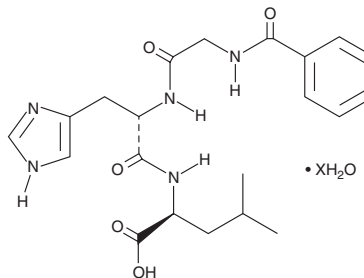
PRODUCT INFORMATION



N-Hippuryl-His-Leu (hydrate)

Item No. 23329

CAS Registry No.: 207386-83-2
Formal Name: N-benzoylglycyl-L-histidyl-L-leucine, hydrate
Synonym: N-Benzoyl-Gly-His-Leu
MF: $C_{21}H_{27}N_5O_5 \cdot XH_2O$
FW: 429.5
Purity: $\geq 98\%$
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥ 2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

N-Hippuryl-His-Leu (hydrate) is supplied as a crystalline solid. A stock solution may be made by dissolving the N-hippuryl-His-Leu (hydrate) in the solvent of choice. N-Hippuryl-His-Leu (hydrate) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of N-hippuryl-His-Leu (hydrate) in these solvents is approximately 2, 14, and 16 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of N-hippuryl-His-Leu (hydrate) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of N-hippuryl-His-Leu (hydrate) in PBS, pH 7.2, is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

N-Hippuryl-His-Leu (hydrate) is a synthetic substrate for angiotensin-converting enzyme (ACE) that has been used in the *in vitro* identification of ACE inhibitors.^{1,2}

References

1. Kolsi, R.B., Fakhfakh, J., Krichen, F., *et al.* Structural characterization and functional properties of antihypertensive *Cymodocea nodosa* sulfated polysaccharide. *Carbohydr. Polym.* **151**, 511-522 (2016).
2. Ben Henda, Y., Labidi, A., Arnaudin, I., *et al.* Measuring angiotensin-I converting enzyme inhibitory activity by micro plate assays: Comparison using marine cryptides and tentative threshold determinations with captopril and losartan. *J. Agric. Food Chem.* **61(45)**, 10685-10690 (2013).

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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