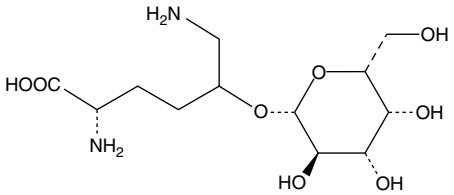
Product Information

5-(galactosylhydroxy)-L-Lysine

Item No. 10010255

CAS Registry No.:	32448-36-5
Formal Name:	5-(β-D-galactopyranosyloxy)-L-lysine
MF:	$C_{12}H_{24}N_2O_8$
FW:	324.3
Purity:	≥95%
Stability:	≥1 year at -20°C
Supplied as:	A crystalline solid



Laboratory Procedures

For long term storage, we suggest that 5-(galactosylhydroxy)-L-lysine be stored as supplied at -20°C. It should be stable for at least one year.

5-(galactosylhydroxy)-L-Lysine is supplied as a crystalline solid. 5-(galactosylhydroxy)-L-Lysine is sparingly soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. For biological experiments, we suggest that organic solvent-free aqueous solutions of 5-(galactosylhydroxy)-L-lysine be prepared by directly dissolving the 5-(galactosylhydroxy)-L-lysine in aqueous buffers. The solubility of 5-(galactosylhydroxy)-L-lysine in PBS, pH 7.2, is approximately 20 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Glycosylated hydroxylysine residues present in bone type I collagen are terminal degradation products of the bone matrix that are released during bone resorption and excreted in the urine. 5-(galactosylhydroxy)-L-Lysine levels are elevated in patients with metabolic bone loss and thus may serve as a biochemical marker of bone collagen quality.[1,2]

References

1. Al-Dehaimi, A.W., Blumsohn, A., and Eastell, R. Serum galactosyl hydroxylysine as a biochemical marker of bone resorption. *Clin. Chem.* **45(5)**, 676-681 (1999).
2. Cascio, V.L., Bertoldo, F., Gambaro, G., *et al.* Urinary galactosyl-hydroxylysine in postmenopausal osteoporotic women: A potential marker of bone fragility. *J. Bone Miner. Res.* **14(8)**, 1420-1424 (1999).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10010255

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will meet our specifications at the time of delivery.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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