

Recombinant Mouse Sonic Hedgehog, C25II

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Rev. 1.00

Catalog Number:	PMC8034	PMC8035	PMC8031	PMC8033
Quantity:	10 µg	25 µg	100 µg	1 mg
Lot Number:	See product label.			
Molecular Weight:	19.7 kDa, 175 amino acid residues.			
Purity:	>95% pure by SDS-PAGE.			
Biological Activity:	ED ₅₀ range = 0.2–1.2 µg/mL (Specific Activity: 5.0×10^3 – 0.83×10^2 units/mg), determined by the dose dependent induction of alkaline phosphatase in mouse mesenchymal cell line C3H10T1/2. The optimal concentration for each specific application should be determined by an initial dose response assay.			
Formulation:	Lyophilized, carrier-free.			
Sterility:	Filtered prior to lyophilization through a 0.22 micron sterile filter.			
Endotoxin:	<0.1 ng/µg			
Production:	Produced in <i>E. coli</i> and purified by sequential chromatography.			
Reconstitution Recommendation:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Lyophilized mouse SHH-C25II should be reconstituted in sterile, 20 mM Citrate Buffer pH 5.0 or 10 mM Acetic Acid to a concentration of 0.1–0.5 mg/mL to regain full activity. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilution should be made in medium or buffered solution containing carrier protein, such as PBS with 0.1% BSA.			
Suggested Working Dilutions:	The optimal concentration should be determined for each specific application.			
Storage:	Lyophilized mouse SHH-C25II should be stored at 2°C to 8°C, preferably desiccated. Store reconstituted mouse SHH-C25II at ≤ -20°C (not in a frost-free freezer). Keep freeze-thaw cycles to a minimum.			
Expiration Date:	Expires one year from date of receipt when stored as instructed.			
References:	<p>Roelink, H., J.A. Porter, C. Chiang, Y. Tanabe, D.T. Chang, P.A. Beachy, T.M. Jessell (1995) Floor plate and motor neuron induction by different concentrations of the amino-terminal cleavage product of sonic hedgehog autoproteolysis. <i>Cell</i> 81:445–455.</p> <p>Hall, T.M., J.A. Porter, P.A. Beachy, D.J. Leahy (1995) A potential catalytic site revealed by the 1.7-Å crystal structure of the amino-terminal signalling domain of Sonic hedgehog. <i>Nature</i> 378:212–216.</p> <p>Nakamura, T., T. Aikawa, M. Iwamoto-Enomoto, M. Iwamoto, Y. Higuchi, M. Pacifici, N. Kinto, A. Yamaguchi, S. Noji, K. Kurisu, T. Matsuya (1997) Induction of osteogenic differentiation by hedgehog proteins. <i>Biochem. Biophys. Res. Commun.</i> 237:465–469.</p> <p>Taylor, F.R., D. Wen, E.A. Garber, A.N. Carmillo, D.P. Baker, R.M. Arduini, K.P. Williams, P.H. Weinreb, P. Rayhorn, X. Hronowski, A. Whitty, E.S. Day, A. Boriack-Sjodin, R.I. Shapiro, A. Galdes, R.B. Pepinsky (2001) Enhanced potency of human sonic Hedgehog by hydrophobic modification. <i>Biochemistry</i> 40:4359–4371.</p>			

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description
	Catalog Number
	Research Use Only
	Use by
	Manufacturer
	Without, does not contain
	Protect from light
	Directs the user to consult instructions for use (IFU), accompanying the product.

Symbol	Description
	Batch code
	In vitro diagnostic medical device
	Temperature limitation
	European Community authorized representative
	With, contains
	Consult accompanying documents

Limited Use Label License: Research Use Only

The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased amount of the product only to perform internal research for the sole benefit of the purchaser. No right to resell this product or any of its components is conveyed expressly, by implication, or by estoppel. This product is for internal research purposes only and is not for use in commercial applications of any kind, including, without limitation, quality control and commercial services such as reporting the results of purchaser's activities for a fee or other form of consideration. For information on obtaining additional rights, please contact outlicensing@lifetech.com or Out Licensing, Life Technologies, 5791 Van Allen Way, Carlsbad, California 92008.

For Research Use Only. Caution: Not for human or animal therapeutic or diagnostic use.

Manufactured under ISO 13485 Quality Standard

Manufacturing site: 7335 Executive Way | Frederick, MD 21704 | Toll Free in USA 800.955.6288

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