

Human Cystatin C (hCystatin C)



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MW (kDa):	UniProt ID:	Entrez-Gene Id:
14	#P01034	1471
Background	Cystatin C is a 14 kDa member of the Cystatin superfamily of cysteine protease inhibitors (1). Most cell types secrete Cystatin C (1). Cystatin C inhibits cathepsins, and thereby may function as a tumor suppressor by inhibiting cathepsin mediated tumor cell invasion (2). In addition, this tumor suppressor function can also be attributed to Cystatin C's ability to antagonize TGF- β 1 signaling (2,3). Cystatin C may also modulate antigen presentation through its ability to inhibit cathepsins (4). Cystatin C is also a biomarker for kidney dysfunction (5).	
Endotoxin	Less than 0.01 ng endotoxin/1 μ g hCystatin C.	
Purity	>98% as determined by SDS-PAGE of 6 μ g reduced (+) and non-reduced (-) recombinant hCystatin C. All lots are greater than 98% pure.	
Source / Purification	Recombinant human Cystatin C (hCystatin C) Ser27-Ala146 (Accession #NP_000090) was expressed in human 293 cells at Cell Signaling Technology.	
Bioactivity	The activity of hCystatin C was determined by assessing its ability to inhibit papain-mediated cleavage of a fluorogenic substrate. The ED ₅₀ of each lot 1-12 nM.	
Background References	<ol style="list-style-type: none"> 1. Keppler, D. (2006) <i>Cancer Lett</i> 235, 159-76. 2. Sokol, J.P. and Schiemann, W.P. (2004) <i>Mol Cancer Res</i> 2, 183-95. 3. Tian, M. and Schiemann, W.P. (2009) <i>Transl Oncol</i> 2, 174-83. 4. Vray, B. et al. (2002) <i>Cell Mol Life Sci</i> 59, 1503-12. 5. Madero, M. and Sarnak, M.J. (2009) <i>Curr Opin Nephrol Hypertens</i> 18, 258-63. 	

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