



Datasheet for ABIN2128355
Cathepsin G Protein (CTSG)



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1 Validation

Overview

Quantity:	1 mg
Target:	Cathepsin G (CTSG)
Origin:	Human
Source:	Human
Protein Type:	Native

Product Details

Purity:	> 96 % pure
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Target Details

Target:	Cathepsin G (CTSG)
Alternative Name:	Cathepsin G (CTSG Products)
Pathways:	ACE Inhibitor Pathway , Peptide Hormone Metabolism , Regulation of Systemic Arterial Blood Pressure by Hormones

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Concentration:	250 µg/mL

Handling

Buffer: Liquid 50 mM sodium acetate, pH 5.5, 0.8 M sodium chloride

Storage: 4 °C/-20 °C/-80 °C



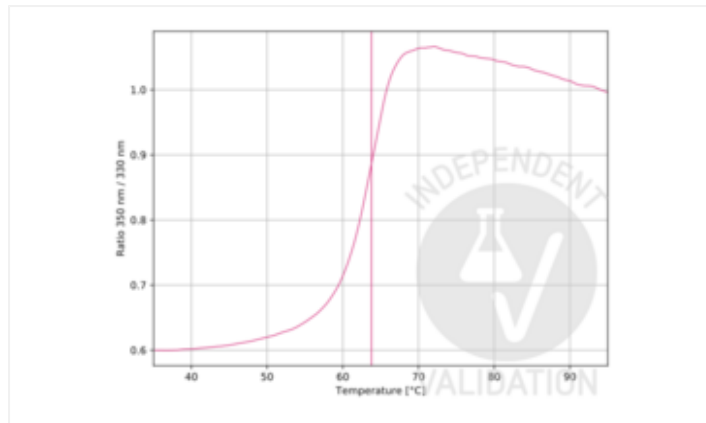
Successfully validated (Unfolding Profile (UP))

by [NanoTemper Technologies](#)

Report Number: 102720

Date: Nov 05 2018

Target:	CTSG
Lot Number:	A14041801
Method validated:	Unfolding Profile (UP)
Positive Control:	ABIN2128355
Notes:	Passed. ABIN2128355 showed a T_i of 63.8 °C and a clear unfolding profile with one unfolding event. This suggests that the protein is properly folded and functional.
Protocol:	<ul style="list-style-type: none">• Dilute ABIN2128355 1:10 in PBS buffer (Roth, 1058.1, lot 285231988) to get a final volume of 15µl at a concentration of 3.5µM.• Load sample into Tycho capillary (NanoTemper Technologies, TY-C001).• Run Tycho measurement.
Experimental Notes:	Tycho is designed to run quick and precise protein quality check experiments. Tycho uses intrinsic protein fluorescence to follow protein unfolding while running a fast thermal ramp, yielding results in 3min. A protein's unfolding behavior is characterized by various parameters, most notably the inflection temperature (T_i). The T_i can be used to identify properly folded protein, to compare different batches, or to analyze the influence of storage/transport conditions on a protein. An absence of T_i would suggest that the protein is already unfolded and therefore most likely nonfunctional.



Validation image no. 1 for Cathepsin G (CTSG) protein (ABIN2128355)

Unfolding profile of ABIN2128355. The fluorescence signal is plotted against temperature. The native (folded) protein has a low signal at the beginning of the experiment, which increases upon unfolding, showing one unfolding event.

The vertical line indicates the T₁ at 63.8°C.