

PRODUCT SPECIFICATION

Product Name	QPrEST MMP1 Mass Spectrometry Protein Standard
Product Number	QPrEST22584
Protein Name	Interstitial collagenase
Uniprot ID	P03956
Gene	MMP1
Product Description	Stable isotope-labeled standard for absolute protein quantification of Interstitial collagenase. Lys (¹³ C and ¹⁵ N) and Arg (¹³ C and ¹⁵ N) metabolically labeled recombinant human protein fragment.
Application	Absolute protein quantification using mass spectrometry
Sequence (excluding fusion tag)	DAITTIIRGEVMFFKDRFYMRTPFYPEVELNFI SVFWPQLPNGLEAAYEF ADRDEVRFKGNKYWAVQGQNVLHGYPKDIYSSFGFPRTVKHIDAALSEE NTGKTYFFVANKYWRDYEKRSMDPGYPKMI AHDFPGIGHKVDVAFM
Theoretical MW	35261 Da including N-terminal His ₆ ABP fusion tag
Fusion Tag	A purification and quantification tag (QTag) consisting of a hexahistidine sequence followed by an Albumin Binding Protein (ABP) domain derived from Streptococcal Protein G.
Expression Host	<i>Escherichia coli</i> LysA ArgA BL21(DE3)
Purification	IMAC purification
Purity	>90% as determined by Bioanalyzer Protein 230 Purity Assay
Isotopic Incorporation	>99%
Concentration	>5 μM after reconstitution in 100 μl H ₂ O
Concentration Determination	Concentration determined by LC-MS/MS using a highly pure amino acid analyzed internal reference (QTag), CV ≤10%.
Amount	>0.5 nmol per vial, two vials supplied.
Formulation	Lyophilized in 100 mM Tris-HCl 5% Trehalose, pH 8.0
Instructions for Reconstitution	Spin vial before opening. Add 100 μL ultrapure H ₂ O to the vial. Vortex thoroughly and spin down. For further dilution, see Application Protocol.
Shipping	Shipped at ambient temperature
Storage	Lyophilized product shall be stored at -20°C. See COA for expiry date. Reconstituted product can be stored at -20°C for up to 4 weeks. Avoid repeated freeze-thaw cycles.
Notes	For research use only

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