


## PRODUCT SPECIFICATION

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|---------------------------------|--|
| Product Name                    | QPrEST HPLN4 Mass Spectrometry Protein Standard  |
| Product Number                  | QPrEST30475  |
| Protein Name                    | Hyaluronan and proteoglycan link protein 4   |
| Uniprot ID                      | Q86UW8   |
| Gene                            | HAPLN4   |
| Product Description             | Stable isotope-labeled standard for absolute protein quantification of Hyaluronan and proteoglycan link protein 4. Lys ( <sup>13</sup> C and <sup>15</sup> N) and Arg ( <sup>13</sup> C and <sup>15</sup> N) metabolically labeled recombinant human protein fragment. |
| Application                     | Absolute protein quantification using mass spectrometry  |
| Sequence (excluding fusion tag) | ESGSVVVQTAPGQVVSHRGGTIVLPCRYHYEAAAHHGHDGVRLKWKVVDPLAFTDVFVALGPQHRAFGSYRGRAELQGDGPGDASLVLRNVTLQDYGRYECEVTNELEDDAGMV   |
| Theoretical MW                  | 30180 Da including N-terminal His <sub>6</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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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