

SIL-hCG protein standard – Arg/Lys <sup>13</sup> C <sup>15</sup> N labelling		
Human Choriogonadotropin (Uniprot accession number P01215-P0DN86)		
Product Description	Human Choriogonadotropin protein (hCG) was expressed in HEK cells with polyHis purification tag at the C-terminus of alpha subunit, and purified using proprietary method including affinity chromatography and Ion Exchange chromatography.	
Protein sequence	<p><b>Alpha chain (CGA):</b>            APDVQDCPECTLQENPFFSQPGAPILQCMGCCFSRAYPTPLRSKKTMLVQKN            VTSESTCCVAKSYNRVTVMGGFKVENHTACHCSTCYHKKSHHHHHH</p> <p><b>Beta chain (CGB):</b>            SKEPLRPRCRPINATLAVEKEGCPVCITVNTTICAGYCPTMTRVLQGVLPALPQ            VVCNYRDVRFESIRLPGCPRGVNPVVSVAVALSCQCALCRRSTTDCGGPKDH            PLTCDPRFQDSSSSKAPPSLSPSRLPGPSDTPILPQ</p>	
Predicted Molecular Mass	10.2 kDa and 16.0 kDa for alpha and beta subunits respectively Apparent molecular weights of about 26 and 36 kDa observed with SDS-PAGE for alpha and beta subunits respectively (Bellisario, R., et al. and Carlsen, R.B. et al., J. Biol. Chem., 1973)	
Expression system	HEK (Human Embryonic Kidney) cell line	
Purity	Greater than 90% as determined by SDS-PAGE analysis	
Labelling	ARG- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> and LYS- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> >99% as determined by LC-MS/MS analysis of trypsin digested SIL-protein	
Tag information	PolyHis tag at the C-terminus of alpha subunit	
Protein Content	Quantitation is carried out by BCA protein assay using BSA as standard.	
Formulation	Lyophilized - 35 mM Sodium Phosphate, 1% Mannitol buffer. Reconstitute by adding H <sub>2</sub> O	
Shipping and storage	The product is supplied as a lyophilized powder and shipped at room temperature. Store at -20°C upon receipt. After reconstitution, protein can be kept at 4°C for a few weeks.	
Usage	The product is for research use only. Not for diagnostic or therapeutic use.	

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