

HBA1

Native Human Hemoglobin A1c

Catalog No.	CSI14653B CSI14653C	Quantity:	100 µg 1 mg
Alternate Names:	Hemoglobin subunit alpha 1, HbA1c, Glycohemoglobin, Glycated hemoglobin		
Description:	Glycated hemoglobin (glycosylated hemoglobin, hemoglobin A1c, HbA1c, A1C, or Hb1c) is a form of hemoglobin which is measured primarily to identify the average plasma glucose concentration over prolonged periods of time. It is formed in a non-enzymatic glycation pathway by hemoglobin's exposure to plasma glucose to yield beta-N-1-deoxy fructosyl hemoglobin A1 Normal levels of glucose produce a normal amount of glycated hemoglobin. As the average amount of plasma glucose increases, the fraction of glycated hemoglobin increases in a predictable way. This serves as a marker for average blood glucose levels over the previous months prior to the measurement. The 2010 American Diabetes Association Standards of Medical Care in Diabetes added the A1c 48 mmol/mol (6.5%) as another criterion for the diagnosis of diabetes.		
Concentration:	≥1.0 mg/ml, by $E_{415\text{ nm}}^{0.1\%} = 7$		
UniProt ID:	P69905		
Appearance:	Clear, red frozen liquid		
Source:	Human Erythrocytes		
Formulation:	0.05 M Sodium Phosphate, pH 8.0		
Purity:	96% HbA1c as determined by quantitative analysis of HbA1c by FPLC using Mono S HbA1c column. Shows one band corresponding to hemoglobin molecular weight.		
Endotoxin Level:	< 0.1 ng/µg of protein		
Storage & Stability:	Store at -20°C to -80°C. Product is stable for 1 year from date of receipt, as supplied. On initial thaw, centrifuge vial to condense product, and store in working aliquots below -20° C. Avoid repeated freeze-thaw cycles.		
Handling:	Non-Infectious Disease Certification: Non-reactive for HIV-1/HCV/HBV by NAT; HBsAg, HCV Ab, HIV-1&2 Ab and RPR by currently approved FDA methods. However, because no test method can offer complete assurance that infectious agents are absent, this material should be handled at Bio-Safety Level 2 (BSL 2) as recommended for potentially infectious human serum or blood specimen in the CCD/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 1999.		

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