

**Datasheet for 000-001-GS6**

## Hemoglobin F Control Peptide

### Overview

<b>Description:</b>	HbF Control Peptide - 000-001-GS6
<b>Item No.:</b>	000-001-GS6
<b>Size:</b>	50 µg

### Product Details

<b>Background:</b>	HbF peptide corresponds to the hemoglobin gamma isoform subunit amino terminal region. Functional alternate hemoglobin (Hb) is a hetero tetramer composed of 2 alpha and 2 gamma subunits. Hemoglobin F is elevated in newborns, reaching adult levels by 12 months. HbF levels are increased to as much as 5% to 10% in normal pregnancy. Sickle cell disease (SCD), thalassemias and hemoglobinopathies occur when aberrant forms of hemoglobin are expressed in children and adults. Hemoglobin variants arise from mutations in the globin genes and sickle cell disease and the more benign sickle cell trait are observed in more than 100 million people globally. HbF peptide is suitable as a control when used with Anti-HbF antibody. This peptide is ideal for investigators involved in Cardiovascular and developmental biology research.
<b>Synonyms:</b>	HbF Control Peptide, Hemoglobin delta subunit, HBG1, HBG2, Sickle Cell Disease (SCD)
<b>Type:</b>	Peptide

### Target Details

<b>Purity/Specificity:</b>	Greater than 95% specific peptide
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P69891</a></li><li>• <a href="#">NCBI - NP_000550.2</a></li><li>• <a href="#">GeneID - 3047</a></li></ul>

### Application Details

<b>Application Note:</b>	HbF peptide can be used as a control with the HbF antibody. Control peptide should be used at 1.0 µg per 1.0 µl of antiserum in per assay.
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**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

## Formulation

<b>Physical State:</b>	Lyophilized
<b>Concentration:</b>	1.0 mg/ml by dry weight
<b>Buffer:</b>	None
<b>Preservative:</b>	None
<b>Stabilizer:</b>	None
<b>Reconstitution Volume:</b>	50 $\mu$ L
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
<b>Storage Condition:</b>	Store vial at 2-8 °C prior to opening. Aliquot contents and freeze at -20 °C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Dilute only prior to immediate use.
<b>Expiration:</b>	Expiration date is six (6) months from date of receipt.

## Disclaimer

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