

## 32-8155: Recombinant Human Bisphosphoglycerate Mutase/BPGM (C-6His)

**Gene :** BPGM  
**Gene ID :** 669  
**Uniprot ID :** P07738

### Description

Source: E. coli.  
MW :31kD.

Recombinant Human Bisphosphoglycerate Mutase is produced by our E.coli expression system and the target gene encoding Ser2-Lys259 is expressed with a 6His tag at the C-terminus. Bisphosphoglycerate Mutase (BPGM) is a member of the Phosphoglycerate Mutase family and BPG-Dependent PGAM subfamily. BPGM is a multifunctional enzyme. BPGM catalyzes 2,3-DPG synthesis via its synthetase activity, and 2,3-DPG degradation via its phosphatase activity. It also has phosphoglycerate phosphomutase activity. BPGM plays a major role in regulating hemoglobin oxygen affinity by controlling the levels of 2,3-bisphosphoglycerate (2,3-BPG). Deficiency of BPGM increases the affinity of cells for oxygen and result in hemolytic anemia.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM Tris, 1mM DTT, pH 8.0 .  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** SKYKLIMLRHGEGAWNKENRFCSWVDQKLNSEGMEEARNCGQKALKALNFEFDLVFTSVLNRSIHTAWLILEEL  
GQEWVPVESSWRLNERHYGALIGLNREQMALNHGEEQVRLWRRSYNVTTPPIEESHPPYQEIYNDRRYKVC  
VPLDQLPRSESLKDVLERLLPYWNERIAPEVLRGKTILISAHGNSRALLKHLEGISDEDIINITLPTGVPILLELDEN  
LRAVGPHQFLGDQEAIAAIKKVEDQGKVKQAKKLEHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.