

Recombinant Human HK1 protein, His-tagged

Cat. No. HK1-7652H Lot. No. (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | Recombinant Human HK1 aa. (Phe80~Met215 (Accession # P19367)) fused with N-terminal His tag was produced in E. coli cells. |
| Species | Human |
| Source | E.coli |
| ProteinLength | Phe80~Met215 |
| Description | Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. Mutations in this gene have been associated with hemolytic anemia due to hexokinase deficiency. Alternative splicing of this gene results in several transcript variants which encode different isoforms, some of which are tissue-specific. |
| Form | Freeze-dried powder |
| Molecular Mass | 16 kDa as determined by SDS-PAGE reducing conditions |
| Endotoxin | <1.0EU per 1g (determined by the LAL method) |
| Purity | >95% |
| Characteristic | The isoelectric point is 7.2. |

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|-----------------------|---|
| Applications | SDS-PAGE; WB; ELISA; IP. |
| Stability | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| Storage | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. |
| Storage buffer | Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4. |
| Reconstitution | Reconstitute in sterile PBS, pH7.2-pH7.4. |

GENE INFORMATION

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|------------------------|---|
| Gene Name | HK1 hexokinase 1 [Homo sapiens (human)] |
| Official Symbol | HK1 |
| Synonyms | HK; HKD; HKI; HXK1; RP79; HMSNR; HK1-ta; HK1-tb; HK1-tc; hexokinase; HK I; brain form hexokinase; glycolytic enzyme; hexokinase I; hexokinase IR; hexokinase type I; hexokinase-1 |
| Gene ID | 3098 |
| mRNA Refseq | NM_000188.2 |
| Protein Refseq | NP_000179.2 |
| UniProt ID | P19367 |

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