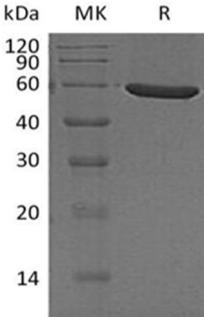


Recombinant Human PFKFB1 (C-6His)

Catalog No: CI45

| Description | Recombinant Human 6-Phosphofructo-2-kinase/Fructose-2,6-bisphosphatase 1 is produced by our Mammalian expression system and the target gene encoding Ser2-Tyr471 is expressed with a 6His tag at the C-terminus. | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|--|---|----|---|-----|--|--|----|--|--|----|--|--|----|--|--|----|--|--|----|--|--|----|--|--|
| Source | Human Cells | | | | | | | | | | | | | | | | | | | | | | | | |
| Alternative name | 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 1; 6PF-2-K/Fru-2,6-P2ase liver isozyme; Fructose-2,6-bisphosphatase; PFKFB1; F6PK; PFRX | | | | | | | | | | | | | | | | | | | | | | | | |
| Accession No. | P16118 | | | | | | | | | | | | | | | | | | | | | | | | |
| Predicted Molecular Weight | 55.6kDa | | | | | | | | | | | | | | | | | | | | | | | | |
| AP Molecular Weight | 60kDa, reducing conditions. | | | | | | | | | | | | | | | | | | | | | | | | |
| Formulation | Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4. | | | | | | | | | | | | | | | | | | | | | | | | |
| Reconstitution | <p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</p> <p>It is not recommended to reconstitute to a concentration less than 100µg/ml.</p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| Quality Control | <p>Purity: Greater than 90% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| Shipping | The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below. | | | | | | | | | | | | | | | | | | | | | | | | |
| Storage | Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles. | | | | | | | | | | | | | | | | | | | | | | | | |
| Background | 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 1 is an enzyme that in humans is encoded by the PFKFB1 gene. The enzyme forms a homodimer that catalyzes both the synthesis and degradation of fructose-2,6-biphosphate using independent catalytic domains. It belongs to the phosphoglycerate mutase family. Fructose-2,6-biphosphate is an activator of the glycolysis pathway and an inhibitor of the gluconeogenesis pathway. Consequently, regulating fructose-2,6-biphosphate levels through the activity of this enzyme is thought to regulate glucose homeostasis. | | | | | | | | | | | | | | | | | | | | | | | | |
| SDS-Page | <p>kDa</p> <table border="1"> <thead> <tr> <th></th> <th>MK</th> <th>R</th> </tr> </thead> <tbody> <tr> <td>120</td> <td></td> <td></td> </tr> <tr> <td>90</td> <td></td> <td></td> </tr> <tr> <td>60</td> <td></td> <td></td> </tr> <tr> <td>40</td> <td></td> <td></td> </tr> <tr> <td>30</td> <td></td> <td></td> </tr> <tr> <td>20</td> <td></td> <td></td> </tr> <tr> <td>14</td> <td></td> <td></td> </tr> </tbody> </table>  | | MK | R | 120 | | | 90 | | | 60 | | | 40 | | | 30 | | | 20 | | | 14 | | |
| | MK | R | | | | | | | | | | | | | | | | | | | | | | | |
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