

Miraculin Protein, Synsepalum dulcificum, Recombinant (His)

General Information

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| Synonyms: | MIR;Miraculin |
| Protein Construction: | 30-220 aa |
| Species: | Synsepalum dulcificum |
| Expression Host: | P. pastoris (Yeast) |
| Accession: | P13087 |
| Molecular Weight: | 23.4 kDa (predicted) |
| AA Sequence: | DSAPNPVLDIDIGEKLRTGTNYIYVPVLRDHGGGLTVSATTPNGTFVCPPRVVQTRKEVDHDRPLAFFPENPKE DVVRVSTDLNINFSAFMPCRWTSSSTVWRLDKYDESTGQYFVTIGGVKGNPGPETISSWFKIEEFCGSGFYKLVF CPTVCGSCKVKCGDVGIIYIDQKGRRLALSDDKPFAPAFEFNKTVYF |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | > 85% as determined by SDS-PAGE. |
| Endotoxin: | < 1.0 EU/μg of the protein as determined by the LAL method. |
| Formulation: | Tris-based buffer, 50% glycerol |

Preparation and Storage

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| Reconstitution: | Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing. |
| Stability & Storage: | Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small> |
| Shipping: | In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice. |

Protein Background

Miraculin has the property of modifying a sour taste into a sweet taste. This alteration of taste perception persists for many minutes.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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