Data Sheet (Cat.No.TMPH-02468)

TargetMol

Mo-CBP3 Protein, Moringa oleifera, Recombinant (GST)

General Information

Synonyms: Mo-CBP3;Chitin-binding protein 3

Protein Construction: 1-22 aa

Species: Moringa oleifera

Expression Host: E. coli

Accession: P86528

Molecular Weight: 29.2 kDa (predicted)

AA Sequence: CPAIQRCCQQLRNIQPPCRCCQ

QC Testing

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: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol.If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Chitin-binding protein. Has antifungal activity against F.solani, F.oxysporum, C.musae and C.gloesporoides but not against P.oligandrum. Depending on concentration the antifungal activity can be fungistatic or fungicidal. Inhibits both spore germination and mycelial growth in F.solani at a concentration of 0.1 mg/ml. Has antifungal activity against C.krusei, C.albicans, C.tropicalis and C.parapsilosis. Has no chitinase, beta-glucanase or

hemagglutinating activity. Acts as a flocculent.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481