

Recombinant Biotinylated MOA
RECOMBINANT PROTEIN

recombinant marasmius oreades agglutinin Lectin (mushroom)-biotin

Catalog Number: PR-29bt
Quantity: 500 micrograms
Format: PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative. Sterile-filtered.
Host: *E. coli*

Background:

Marasmius oreades agglutinin (MOA) derives from the *Marasmius oreades* mushroom. MOA consists of an intact 33 kDa and truncated 23 kDa subunit as well as a 10 kDa polypeptide. MOA has been used to study glomerular endothelial injury and to agglutinate B-type red blood cells.

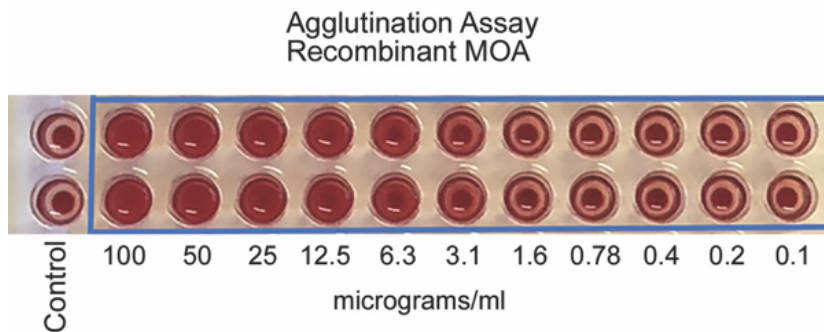
Specificity and Preparation:

This recombinant protein binds specifically to blood group B antigens and has a high affinity to alpha-Gal, a carbohydrate found on B-type blood cells. Recombinant MOA was expressed in *E. coli* and purified using affinity chromatography. This product is routinely tested by coomassie stain of a SDS-PAGE gel and agglutination assay.

Usage and Storage:

Applications include red blood cell (RBC) agglutination (ATS in-house, 3.1 µg/ml for B-type RBC's; does not agglutinate A-type RBC's at 100 µg/ml). Store the material at -20 °C for 6 months. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

To view protocol(s) for this and other products please visit: www.ATSBio.com/support/protocols



Biotinylated Recombinant MOA was added to the plate and diluted across the wells, with a final volume of 50 µl per well. Fixed B-type RBC's were added to a V-bottom plate in 50-µl volumes, and the plate was incubated for 1 hr at room temperature. Agglutination is demonstrated by a diffuse pellet across the bottom of the well. Non-agglutinated cells form a discrete pellet at the bottom of the well. Control: Sodium dihydrogen phosphate (NaH₂PO₄).

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