



## 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*

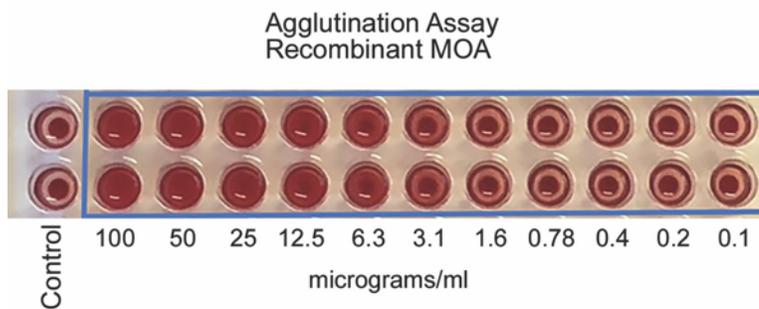
**Background:** Marasmius oreades agglutinin (MOA) derives from the *Marasmius oreades* mushroom. MOA consists of an intact 33 kDa and truncated 23 kDa subunit as well as a 10 kDa polypeptide. MOA has been used to study glomerular endothelial injury and to agglutinate B-type red blood cells.

**Specificity & 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:** 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).

**Storage:** Store the material at -20 °C for 6 months. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

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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 (NaH<sub>2</sub>PO<sub>4</sub>).