

We are providing TAMAVIDIN 2 through a selling agency.

Tamavidin 2 is a novel avidin-like biotin-binding protein from the edible fungus^{*}, Tamogitake mushroom (*Pleurotus cornucopiae*). Tamavidin 2 can be used in numerous applications of biotin-binding proteins. For example, like avidin, it can be applied for immunological detection of antibodies, in which biotinylated antigens were immobilized on tamavidin 2-beared solid surface (microtiter plates, magnetic microbeads, and so on). Tamavidin 2 is a tetrameric protein and each subunit binds biotin with high affinity^{*}. It has higher thermo stability than those of avidin and streptavidin, and shows less nonspecific binding than avidin.

- TAMAVIDIN 2 is prepared as the affinity-purified protein and its activity is adjusted to more than 8 U/mg protein

For further information, please contact us.

- Recombinant protein produced in *Escherichia coli*
- Less non-specific binding to DNA and serum than avidin
- Immunologically different from Avidin and Streptavidin.
- High thermo stability, the *Tm* value is 85 °C^{*}
- More than 95% purity; 15 kDa as monomer (main band), 30 kDa as dimer (faint band) in denaturing SDS-PAGE

Configuration :

White powder (freeze-dried Tamavidin 2)

※Contains potassium phosphate buffer. When dissolved in DDW (1 mL per 1 mg protein), it will be 1mg protein / ml 20mM potassium phosphate buffer (pH7.0).

Biotin binding assay :

1. HABA ((4'-hydroxyazobenzene-2-carboxylic acid) assay

condition	50mM citrate buffer (pH5.0)
detection	500nm

2. Biotin-fluorescent assay

reagent	Biotin-4-fluorescein
excitation	460nm
detection	525nm

Strage :

Stable at 4°C for three years in freeze-dried or aqueous form.

Publications :

※ Takakura, Y., et al. *FEBS J.* 276(5), 1383-97 (2009)

Package :

1mg, 5mg

Supplier :

Wako Pure Chemical Industries, Ltd.