

**IS-6633-1 Streptavidin conjugated with Peroxidase
(Peroxidase~Streptavidin)**

Size: 1 mg

Concentration: 1 mg/1 ml

Form: Liquid

Presentation: The conjugate (1 mg of streptavidin conj. with peroxidase) is supplied in 1 ml of 10 mM PO₄, 200 mM NaCl, pH 7.5, BSA 10 mg/ml and 0.05% Proclin 300.

Description: Streptavidin is a 52-66 kDa (average 60 kDa) (subunit MW 14 kDa) biotin-binding protein isolated from *Streptomyces avidini*. Streptavidin is superior to avidin, because it does not contain carbohydrate like avidin and has no net charge at neutral pH. Streptavidin~biotin system is routinely used in Immunohistochemistry (IHC). Extinction Coefficient 1% A₂₈₀=32.0.

Purity: > 99% pure by HPLC; Electrophoretically homogenous, single band.

Protein content: > 95%; Activity 14.8 units/ mg, one unit binds 1.0 ug of d-biotin;

Protease activity: 0.000018 units/mg

Isoelectric point: 7.0 +/- determined by Isoelectric focusing.

Peroxidase used for conjugation is 44 kDa glycoprotein isolated from horseradish roots. The Rz (Reinhetszahl), absorbance ratio of A₄₀₃/A₂₇₅ is ~3.0

1 mg of Streptavidin is conjugated with peroxidase, in equimolar ratio.

Unconjugated Streptavidin is removed.

Applications: ELISA: 1:8,000-1:32,000 (32-125 ng/ml);
IHC: 1:200-1:1,000 (1-5 µg/ml);
WB (ECL): 1:10,000-1:100,000 (10-100 ng/ml);
WB (chromogen): 1:500-1:5,000 (0.1-2 µg/ml).

The optimum dilution should be determined by the individual investigator.

Storage: 2-8°C

Caution: Peroxidase reagents are destroyed by sodium azide; therefore it should be avoided in all buffers and reagents.