Digoxigenin, HRP conjugate

DAG1091

Lot. No. (See product label)

PRODUCT INFORMATION

Product overview	Digoxigenin, HRP conjugate
Antigen Description	Digoxigenin (DIG) is a steroid found exclusively in the flowers and leaves of the plants Digitalis purpurea and Digitalis lanata. Digoxigenin is chemically closely related to Digoxin, the cardiac glycoside used for the treatment of various heart diseases. The term 'genin' at the end of Digoxigenin, refers to only the aglycone portion (without the sugar) part of the molecule,thus Digoxigenin is the steroid component of Digoxin, - minus the (digitose) sugar residues. DIG can be covalently added to proteins or nucleic acids which makes it very useful in diverse applications.
Source	Conjugates
Conjugate	HRP
Form	concentrate
Characteristic	Each conjugate comprises antigen covalently bound to horseradish peroxide and is suitable as a tracer in immunoassay development

PACKAGING

Storage	Can be stored at 2-8°C for up to 3 months and at -20°C for longer term storage.

BACKGROUND

Introduction	Digoxigenin is a hapten, a small molecule with high immunogenicity, that is used in many molecular biology applications similarly to other popular haptens such as DNP (dinitrophenol), biotin, and fluorescein. Typically, Digoxingenin is introduced chemically (conjugation) into biomolecules (proteins, nucleic acids) to be detected in further assays. Anti-Digoxigenin antibodies with high affinities and specificity, are used in a variety of biological immuno-assays (ELISA, Immun°Chemistry,...). Abs are labeled with dyes, enzymes or fluorescence, directly or secondarily, for visualization and detection.
Keywords	Digoxigenin; DIG; LANADIGIGENIN; 5BETA,20[22]-CARDENOLIDE-3BETA,12BETA,14-TRIOL; 3-beta,12,14-trioxy-carden-(20:22)-olid; Digoxigenin Lanadigigenin

REFERENCES

1. Hauptmann, G.; Gerster, T. (1994). "Two-color whole-mount in situ hybridization to vertebrate and Drosophila embryos". Trends Genet 10 (8): 266. DOI:10.1016/0168-9525(90)90008-T. PMID 7940754. 2. J Biomol Tech. 2009 April; 20(2): 96–100 ; Shanion M. Hart and Chhandak Basu. Optimization of a Digoxigenin-Based Immunoassay System for Gene Detection in Arabidopsis thaliana.

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