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## Product Information Sheet

### Ordering Information

Product Number: 3503  
Product Name: Digoxigenin maleimide  
Unit Size: 1 mg  
Storage Conditions: Freeze (<-15 °C)  
Expiration Date: 12 months upon receiving

### Chemical and Spectral Properties

Appearance: Solid  
Molecular Weight: 570.68  
Soluble In: DMSO  
Excitation Wavelength: N/A  
Emission Wavelength: N/A

### Application Notes

Digoxigenin (DIG) is a hapten, a small molecule with high antigenicity, which is used in many biological detections similarly to other popular haptens such as 2,4-Dinitrophenol (DNP) and biotin. Typically, digoxigenin is conjugated to a macrobiomolecule (e.g., proteins, nucleic acids, etc) to be detected. Anti-digoxigenin antibodies are labeled with fluorescent dyes or enzymes, directly or secondarily, for visualization and detection. Digoxigenin maleimide readily reacts with thiol group under mild conditions, attaching the digoxigenin moiety to proteins or thiol-substituted oligonucleotides. Digoxigenin-labeled biomolecules are used for biological detections in combination with anti-digoxigenin antibodies of high affinity and specificity.