**AUTOdot Autophagy Visualization Dye**  
Monodansylpentane (MDH) Staining Tool  
Catalog # SM1000a

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**Specification**

**AUTOdot Autophagy Visualization Dye - Product Information**

- **Concentration**: 0.1M  
- **Target/Specificity**: AUTOdot is a monodansylpentane (MDH) staining tool specific for autophagic vacuoles.

**Format**  
Product is 0.1M MDH supplied in DMSO.

**Storage**  
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**  
AUTOdot Autophagy Visualization Dye is for research use only and not for use in diagnostic or therapeutic procedures.

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**AUTOdot Autophagy Visualization Dye - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot  
- Blocking Peptides  
- Dot Blot  
- Immunohistochemistry  
- Immunofluorescence  
- Immunoprecipitation  
- Flow Cytometry  
- Cell Culture

**AUTOdot Autophagy Visualization Dye - Citations**

- [PNPLA3 variant M148 causes resistance to starvation-mediated lipid droplet autophagy in human hepatocytes.](#)  
- [PCYT1A Regulates Phosphatidylcholine Homeostasis from the Inner Nuclear Membrane in Response to Membrane Stored Curvature Elastic Stress.](#)  
- [SNX14 mutations affect endoplasmic reticulum associated neutral lipid metabolism in autosomal recessive spinocerebellar ataxia 20](#).  
- [Adhesion-induced eosinophil cytolysis requires the receptor-interacting protein kinase 3 (RIPK3)-mixed lineage kinase-like (MLKL) signaling pathway, which is counterregulated by autophagy.](#)  
- [Regulation of lipid droplets by metabolically controlled Ldo isoforms](#),  
- [Identification of seipin-linked factors that act as determinants of a lipid droplet subpopulation](#),  
- [Aurora A kinase phosphorylates Hec1 to regulate metaphase kinetochore-microtubule dynamics](#).  
- [A Novel Assay Reveals a Maturation Process during Ascospore Wall Formation](#).  
- [β-adrenergic induction of lipolysis in hepatocytes is inhibited by ethanol exposure](#).
• Novel replicons and trans-encapsidation systems for Hepatitis C Virus proteins live imaging and virus-host interaction proteomics.
• Staining of Lipid Droplets with Monodansylpentane.
• Mouse fat storage-inducing transmembrane protein 2 (FIT2) promotes lipid droplet accumulation in plants.
• Spatial control of lipid droplet proteins by the ERAD ubiquitin ligase Doa10.
• The seipin complex Fld1/Ldb16 stabilizes ER-lipid droplet contact sites.
• Lipid partitioning at the nuclear envelope controls membrane biogenesis.
• Hdac3-Deficiency Increases Marrow Adiposity and Induces Lipid Storage and Glucocorticoid Metabolism in Osteo-Chondroprogenitor Cells.
• High confidence proteomic analysis of yeast LDs identifies additional droplet proteins and reveals connections to dolichol synthesis and sterol acetylation.