

# PRODUCT DATA SHEET



**BML-AK530**

## **Fluor-de-Lys<sup>®</sup>-green HDAC fluorometric activity assay kit**

[Histone deacetylase green fluorescent assay kit]

### **Product Number/Sizes**

BML-AK530-0001

1 Kit

### **Product Specifications**

**KIT/SET CONTAINS:**

**Nuclear Extract from HeLa Cells** (human cervical cancer cell line) (Prod. No. BML-KI140)  
(100µl; 6-9mg/ml in 0.1M potassium chloride, 20mM HEPES/NaOH, 20% (v/v) glycerol, 0.2mM EDTA, 0.5mM DTT, 0.5mM PMSF)  
Storage: -70°C.

**Fluor de Lys<sup>®</sup>-Green Substrate** (Prod. No. BML-KI572)  
(50µl; 50mM in DMSO)  
Storage: -70°C.

**Fluor de Lys<sup>®</sup> Developer Concentrate (20X)** (Prod. No. BML-KI105)  
(300µl; 20x stock solution; dilute in assay buffer before use)  
Storage: -70°C.

**Trichostatin A** (Prod. No. BML-GR309)  
(100µl; 0.2mM in DMSO)  
Storage: -70°C.

**Fluor de Lys<sup>®</sup>-Green Deacetylated Standard** (Prod. No. BML-KI573)  
(30µl; 1mM in DMSO)  
Storage: -70°C.

**NAD<sup>+</sup>** (Sirtuin Substrate) (Prod. No. BML-KI282)  
500µl; 50mM in 50mM TRIS, pH 8.0, 137mM sodium chloride, 2.7mM potassium chloride, 1mM magnesium chloride)  
Storage: -70°C.

**Nicotinamide** (Prod. No. BML-KI283)  
(500µl; 50mM in 50mM TRIS, pH 8.0, 137mM sodium chloride, 2.7mM potassium chloride, 1mM magnesium chloride)  
Storage: -70°C.

**HDAC Assay Buffer** (Prod. No. BML-KI143)  
(20ml; 50mM TRIS, pH 8.0, 137mM sodium chloride, 2.7mM potassium chloride, 1mM magnesium chloride)  
Storage: -70°C.

**96 Well Plates** (Prod. No. BML-KI101)  
Storage: Room temperature

**White NBS Microplate** (Prod. No. BML-KI571)  
Storage: Room temperature

QUANTITY:

96 assays

SHIPPING:

SHIPPED ON DRY ICE

LONG TERM STORAGE:

-80°C

HANDLING:

Store all components (except microtiter plates) at -70°C. Unused HeLa Nuclear Extract should be refrozen quickly, if possible snap freeze in liquid nitrogen.

### **Product Description**

An improved Fluor de Lys<sup>®</sup> HDAC assay with Fluor de Lys<sup>®</sup>-Green, a new substrate offering higher sensitivity and an excitation and emission (485/530nm) that avoids quenching and fluorescent interference from compounds absorbing in the near UV and blue range.

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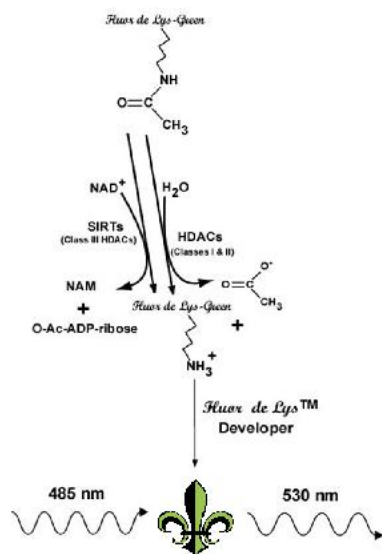
The Fluor de Lys<sup>®</sup>-Green HDAC assay is a complete kit for measuring histone deacetylase (HDAC) activity in cell or nuclear extracts, immunoprecipitates or purified enzymes. It comes in a convenient 96-well format, with all reagents necessary for fluorescent HDAC or sirtuin activity measurements and calibration of the assay. The Fluor de Lys<sup>®</sup>-Green HDAC assay is based on the Fluor de Lys<sup>®</sup>-Green substrate and Fluor de Lys<sup>®</sup> developer combination. The Fluor de Lys<sup>®</sup> system (Fluorogenic Histone deAcetylase Lysyl Substrate/Developer) is a highly sensitive and convenient alternative to radiolabeled, acetylated histones or peptide/HPLC methods for the assay of histone deacetylases. The assay procedure has two steps.

First, the Fluor de Lys<sup>®</sup>-Green substrate, which comprises an acetylated lysine side chain, is incubated with a sample containing HDAC activity (HeLa nuclear or other extract, purified enzyme, bead-bound immunocomplex, etc.). Deacetylation of the substrate sensitizes the substrate so that, in the second step, treatment with the Fluor de Lys<sup>®</sup> developer produces a fluorophore.

## Background/Technical Information

For the Manual please click [here](#).

## Images



**Figure 1:** Reaction scheme of the Fluor de Lys<sup>®</sup>-Green HDAC assay kit. Deacetylation of the substrate sensitizes it to the developer, which then generates a fluorophore (lily-symbol).

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