SUMO-1 (93-97)-AMCA

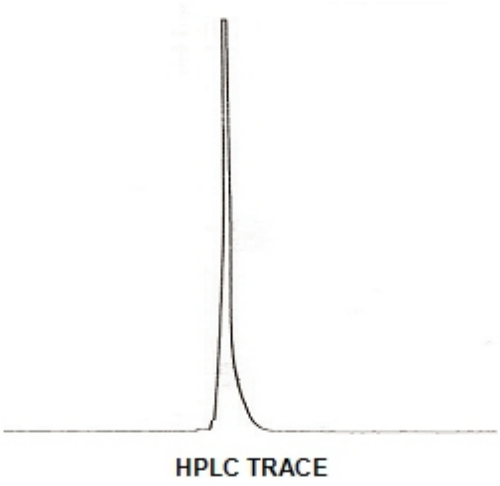
SUMO1-AMCA is a synthetic AMCA-peptide substrate based on the C-terminal residues of SUMO1 and is a useful fluorogenic substrate for deSUMOylating enzymes, including SENP1 (BML-UW9760). It has particular utility for the study of deSUMOylating activity where continuous monitoring of activity is essential. It provides an alternative substrate to SUMO1-AMC.

Citations: 1 View Online »

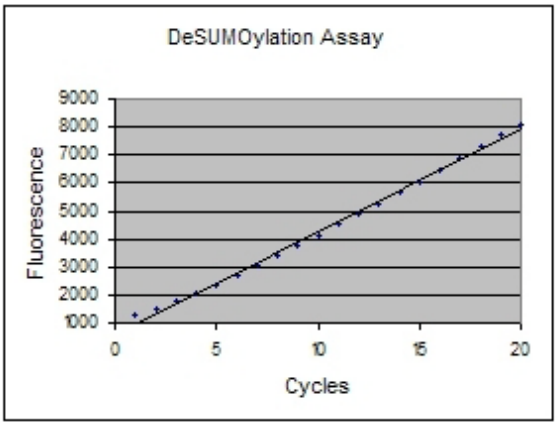
Ordering Information Order Online »

BML-UW0500-1000	1mg

Manuals, SDS & CofA View Online »


HPLC TRACE

HPLC trace


DeSUMOylation Assay
Fluorescence
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
5
10
15
20
Cycles

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Store solid at -20°C for up to twelve months. Solutions can be stored for up to three months at -20°C.
Handling	Avoid freeze/thaw cycles.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Application Notes

Useful fluorogenic substrate for deSUMOylating enzymes.

Typical assay conditions:
Assay substrate concentration: 12.5μM-100μM.
Enzyme concentrations: 0.5μM-4μM.
Release of AMCA fluorescence by deSUMOylating enzymes can be monitored using fluorimetry (380nm excitation and 460nm emission wavelengths).

Uses:

1. Substrate for deSUMOylating enzyme activity assays.
2. Identification/confirmation of enzyme deSUMOylation activity.
3. Investigation of deconjugating enzyme substrate specificity in comparison with alternative UBL-AMC/AMCA substrates (e.g. SUMO1-AMC, NEDD8-AMCA).

Formulation	Lyophilized solid.
MW	747
Purity	≥95% (HPLC)
Sequence	$E^{93}QTGG^{97}$-AMCA
Solubility	Soluble in DMSO. Can be subsequently diluted in aqueous buffers.

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