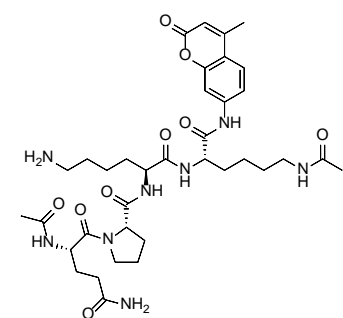


Product data sheet



MedKoo Cat#: 464558 Name: LDN-05233 CAS: 1387005-23-3 Chemical Formula: C ₃₆ H ₅₂ N ₈ O ₉ Exact Mass: 740.3857 Molecular Weight: 740.859	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:

LDN-05233 is a fluorogenic substrate for sirtuin 1 (SIRT1), SIRT2, and SIRT3. It is selectively deacylated by SIRT1-3 over SIRT6. Upon enzymatic cleavage by SIRT1, SIRT2, or SIRT3, LDN-05233 is released and its fluorescence can be used to quantify SIRT1, SIRT2, and SIRT3 activity. LDN-05233 displays excitation/emission maxima of 340-360/440-460 nm, respectively. This product has no formal name at the moment. For the convenience of communication, a temporary code name was therefore proposed according to MedKoo Chemical Nomenclature (see web page: <https://www.medkoo.com/page/naming>).

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under "QC And Documents" section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMF	10.0	13.50
DMSO	15.0	20.25
PBS (pH 7.2)	10.0	13.50

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	1.35 mL	6.75 mL	13.50 mL
5 mM	0.27 mL	1.35 mL	2.70 mL
10 mM	0.14 mL	0.68 mL	1.35 mL
50 mM	0.03 mL	0.14 mL	0.27 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of "Calculator"

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

TBD

In vivo study

TBD

7. Bioactivity

Biological target:

A fluorogenic substrate for SIRT1, SIRT2, and SIRT3.

In vitro activity

TBD

Product data sheet



In vivo activity

TBD

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.