7-cADPR / N7-cADPR

Analogue of canonical cADPR identified as new second messenger in type IV Thoeris defence system in bacteria

For other salt forms please inquire. 7-cADPR, a recently identified structural isomer of the canonical second messenger cADPR (Cat. No. C 005), is one of several new, biologically relevant endogenous cyclic nucleotides, including 2'-cADPR (Cat. No. C 406) and 3'-cADPR (Cat. No. C 404). 7-cADPR has been identified as a signaling molecule involved in the innate immunity defense system of bacteria. Following recognition of phage invasion, bacterial Toll/interleukin-1 receptor (TIR)-domain proteins produce the previously unknown 7-cADPR. 7-cADPR activates the bacterial caspase-like protease, which indiscriminately degrades cellular proteins, halting phage replication. Rousett et al. denote this TIR-caspase defense system as type IV Thoeris, which is abundant in bacteria and efficiently protects against phage propagation.

BLG-C411-005 (5 x 0.1 µmol pack size) is not sold in the U.S. or Canada. Please contact us for available options.

Ordering Information

Order Online »

BLG-C411-001	0.1µmol
BLG-C411-005	5x0.1µmol

Manuals, SDS & CofA

View Online »

Handling & Storage

Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	(1''-7)-Cyclic adenosine diphosphate ribose . sodium salt
Appearance	Solid
Couple Type	Modified nucleotides
Formula	$C_{15}H_{21}N_5O_{13}P_2$ (free acid)
MW	541.3 (free acid)
Purity	> 90 % HPLC
Quantity	0.1 µmol are equivalent to ~54 µg
Technical Info / Product Notes	For the Original Manufacturer's data sheet please click here.

ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

For local distributors and detailed product information visit us online: enzo.com All product names, logos, and brands are the property of their respective owners.