

Datasheet 3/16/2023

Product Name: Photo-ODIBO-EG4-NHS

Catalog Number: EGA258

Size: 25mg

URL: <https://www.kerafast.com/item/1596/photo-odibo-eg4-nhs>

Specifications:

Product Type: Small Molecule

Name: Photo-ODIBO-EG4-NHS; Photo-ODIBO-TEG-NHS

Alternative Name(s): 2-(2-(2-(3-(tert-butyl)-1-oxo-1,7-dihydrodibenzo[b,f]cyclopropa[d]oxocin-9-yl)oxy)ethoxy)ethoxy)ethyl (2,5-dioxopyrrolidin-1-yl) carbonate

Chemical Formula: C₃₃H₃₇NO₁₁

CAS number: 2095777-51-6

Molecular Weight: 623.65

Format: Colorless oil

Purity: >99% ¹HNMR

Solubility: CH₃CN, MeOH, etc.

Spectral Information: **¹H-NMR:** 7.93-7.95 (m, 2H), 7.49-7.52 (dd, J = 8.5, 2.5 Hz, 1H), 7.19-7.21 (d, J = 8.5 Hz, 1H), 7.04-7.07 (m, 2H), 5.25-5.28 (d, J = 12.2 Hz, 1H), 4.77-4.80 (d, J = 12.2 Hz, 1H), 4.44-4.46 (m, 2H), 4.23-4.25 (t, J = 4.8 Hz, 2H), 3.90-3.92 (t, J = 4.8 Hz, 2H), 3.73-3.79 (m, 4H), 3.65-3.71 (m, 6H), 2.82 (s, 4H), 1.35 (s, 9H).

¹³C-NMR: 168.72, 162.19, 160.53, 152.81, 151.81, 148.13, 144.18, 142.35, 140.78, 135.61, 131.21, 130.80, 122.14, 117.99, 117.52, 117.47, 117.19, 114.82, 78.88, 71.09, 70.95, 70.81, 70.43, 69.62, 68.52, 68.14, 34.75, 31.52, 25.64.

ESI HRMS: calcd. (M+H⁺): C₃₃H₃₈NO₁₁⁺: 624.2439, found 624.2442.

¹³C-NMR: 1846 cm⁻¹ (ν C=O).

Storage: +10C

Storage: +10C

Shipped: Ambient Temperature

Provider: From the laboratory of [Vladimir V. Popik, PhD](#), University of Georgia.

References:

1. Matthew Bjerknes, Hazel Cheng, Christopher D. McNitt, and Vladimir V. Popik: Facile Quenching and Spatial Patterning of Cylooctynes via Strain-Promoted Alkyne-Azide Cycloaddition of Inorganic Azides. *Bioconjugate Chem.*, 2017, 28 (5), pp 1560–1565
2. Orski, SV, Poloukhine, AA, Arumugam, S, Mao, L, Popik, VV, Locklin, J: High density orthogonal surface immobilization via photoactivated copper-free click chemistry: (2010) *J. of the Am. Chem. Soc.* 132(32) 11024-11026
3. Selvanathan Arumugam, Sara V. Orski, Ngalle Eric Mbuja, Christopher McNitt, Geert-Jan Boons, Jason Locklin, and Vladimir V. Popik: Photo-click chemistry strategies for spatiotemporal control of metal-free ligation, labeling, and surface derivatization. *Pure Appl. Chem.*, Vol. 85, No. 7, pp. 1499–1513, (2013)
4. US Patents US8,258,347, US8,426,649 and US8,541,625

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