

Product data sheet



MedKoo Cat#: 574185 Name: LysoFP-NH2 CAS: 69408-85-1 Chemical Formula: C ₁₈ H ₁₉ N ₃ O ₃ Exact Mass: 325.1426 Molecular Weight: 325.368	
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:

LysoFP-NH2 is the fluorescent form of the lysosomal turn-on fluorescent probe for carbon monoxide (CO) lysoFP-NO2. LysoFP-NH2 is formed when lysoFP-NO2 reacts with CO. It displays excitation/emission maxima of 440/528 nm, respectively.

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	20.0	61.47
DMSO	20.0	61.47
DMSO:PBS (pH 7.2) (1:30)	0.03	0.09
Ethanol	1.0	3.07

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	3.07 mL	15.37 mL	30.73 mL
5 mM	0.61 mL	3.07 mL	6.15 mL
10 mM	0.31 mL	1.54 mL	3.07 mL
50 mM	0.06 mL	0.31 mL	0.61 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

1. Dhara K, Lohar S, Patra A, Roy P, Saha SK, Sadhukhan GC, Chattopadhyay P. A New Lysosome-Targetable Turn-On Fluorogenic Probe for Carbon Monoxide Imaging in Living Cells. *Anal Chem.* 2018 Feb 20;90(4):2933-2938. doi: 10.1021/acs.analchem.7b05331. Epub 2018 Feb 1. PMID: 29353475.

In vivo study

TBD

7. Bioactivity

Biological target:

LysoFP-NH2 is the fluorescent form of the lysosomal turn-on fluorescent probe for carbon monoxide (CO) lysoFP-NO2.

In vitro activity

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A lysosome-targetable fluorogenic probe, LysoFP-NO₂, was designed and synthesized based on a naphthalimide fluorophore that can detect selectively carbon monoxide (CO) in HEPES buffer (pH 7.4, 37 °C) through the transformation of the nitro group into an amino-functionalized system in the presence of CO. LysoFP-NO₂ triggered a "turn-on" fluorescence response to CO with a simultaneous increase of fluorescence intensity by more than 75 times.

Reference: Anal Chem. 2018 Feb 20;90(4):2933-2938. <https://pubmed.ncbi.nlm.nih.gov/29353475/>

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.