

Rhizoferrin

Chemical Properties

CAS No. : 138846-62-5

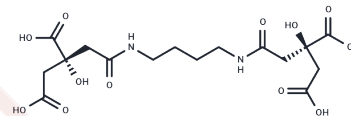
Formula: C₁₆H₂₄N₂O₁₂

Molecular Weight: 436.37

Keep away from direct sunlight, Store at low temperature, Store under nitrogen

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Rhizoferrin is a novel iron carrier from the fungus <i>Rhizopus microsporus</i> var. <i>rhizopodiformis</i> for the study of iron-deficiency-induced chlorosis in plants.
Targets(IC ₅₀)	Others

Solubility Information

Solubility	DMSO: 50 mg/mL (114.58 mM), Sonication is recommended. H ₂ O: 50 mg/mL (114.58 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2916 mL	11.4582 mL	22.9163 mL
5 mM	0.4583 mL	2.2916 mL	4.5833 mL
10 mM	0.2292 mL	1.1458 mL	2.2916 mL
50 mM	0.0458 mL	0.2292 mL	0.4583 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Lopez AE, et al. Legionella pneumophila Rhizoferrin Promotes Bacterial Biofilm Formation and Growth within Amoebae and Macrophages. *Infect Immun*. 2023 Aug 16;91(8):e0007223.
- Alejandre-Castañeda V, et al. Secretion of the siderophore rhizoferrin is regulated by the cAMP-PKA pathway and is involved in the virulence of *Mucor lusitanicus*. *Sci Rep*. 2022 Jun 23;12(1):10649.
- Li B, Deng X, et al. Alternative pathways utilize or circumvent putrescine for biosynthesis of putrescine-containing rhizoferrin. *J Biol Chem*. 2021 Jan-Jun;296:100146.
- Ramakrishnan G, et al. Citryl Ornithine Is an Intermediate in a Three-Step Biosynthetic Pathway for Rhizoferrin in *Francisella*. *ACS Chem Biol*. 2019 Aug 16;14(8):1760-1766.

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