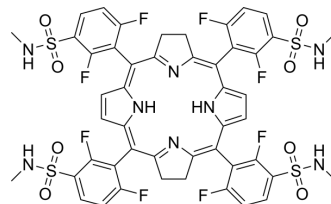


Redaporfin

Cat. No.:	HY-17644												
CAS No.:	1224104-08-8												
Molecular Formula:	C ₄₈ H ₃₈ F ₈ N ₈ O ₈ S ₄												
Molecular Weight:	1135.11												
Target:	Reactive Oxygen Species												
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB												
Storage:	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	6 months		-20°C	1 month
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SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (88.10 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>0.8810 mL</td> <td>4.4049 mL</td> <td>8.8097 mL</td> </tr> <tr> <td>5 mM</td> <td>0.1762 mL</td> <td>0.8810 mL</td> <td>1.7619 mL</td> </tr> <tr> <td>10 mM</td> <td>0.0881 mL</td> <td>0.4405 mL</td> <td>0.8810 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	0.8810 mL	4.4049 mL	8.8097 mL	5 mM	0.1762 mL	0.8810 mL	1.7619 mL	10 mM	0.0881 mL	0.4405 mL	0.8810 mL
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Please refer to the solubility information to select the appropriate solvent.																						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 6.25 mg/mL (5.51 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 6.25 mg/mL (5.51 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6.25 mg/mL (5.51 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	Redaporfin (LUZ11) acts as a potent photosensitizer. Redaporfin causes direct antineoplastic effects as well as indirect immune-dependent destruction of malignant lesions ^[1] .
In Vitro	The combination photodynamic therapy (PDT) with Redaporfin (5μM) induces a reduction in the abundance of several Golgi apparatus (GA) proteins such as Golgi brefeldin A-resistant guanine nucleotide exchange factor 1 (GBF1), golgin subfamily A member 2 (GOLGA2), and galactosyltransferase 1 (GALT1), as well as that of two ER proteins, eukaryotic translation initiation factor 2-alpha (eIF2α) kinase 3 (EIF2AK3) and protein disulfide-isomerase A3 (PDIA3). In contrast, there is no major decrease

in mitochondrial import receptor subunit TOM20 homolog (TOMM20) or in the cytoskeleton protein β -actin^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis^[1]

Cell Line:	Human osteosarcoma U2OS cells
Concentration:	0.3, 0.6, 1.3, 2.5, 5, 10 μ M
Incubation Time:	6 hours
Result:	Induced a reduction in the abundance of GBF1, GOLGA2, and GALT1, as well as EIF2AK3 and PDIA3.

REFERENCES

[1]. Lígia C Gomes-da-Silva, et al. Photodynamic therapy with redaporfin targets the endoplasmic reticulum and Golgi apparatus. EMBO J. 2018 Jul 2;37(13):e98354.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA