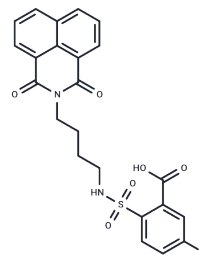


Radioprotectin-1

Chemical Properties

| | |
|-------------------|-------------------------------------------------------------------|
| CAS No. : | 1622006-09-0 |
| Formula: | C ₂₃ H ₁₉ ClN ₂ O ₆ S |
| Molecular Weight: | 486.92 |
| Appearance: | no data available |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year |



Biological Description

| | |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Radioprotectin-1 is a selective agonist of LPA2 with EC ₅₀ of 25 nM for murine LPA2 GPCR and exerts radioprotective and radiomitigative action. |
| Targets(IC ₅₀) | LPA Receptor |
| In vitro | In MEF and IEC-6 cells expressing LPA2, Radioprotectin-1 (0, 0.1, 0.3, 1.0, and 3 μM) effectively reduces apoptosis induced by gamma-irradiation and the radiomimetic chemotherapeutic Adriamycin[1]. |
| In vivo | In C57BL/6 female mice, Radioprotectin-1 (0.1 and 0.3 mg/kg; s.c.) decreases the mortality in models of the hematopoietic and gastrointestinal acute radiation syndrome [1]. |

Solubility Information

| | |
|------------|---------------------------------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 100 mg/mL (205.4 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---------------------------------------------------------------------------------------------------------------------------|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.0537 mL | 10.2686 mL | 20.5373 mL |
| 5 mM | 0.4107 mL | 2.0537 mL | 4.1075 mL |
| 10 mM | 0.2054 mL | 1.0269 mL | 2.0537 mL |
| 50 mM | 0.0411 mL | 0.2054 mL | 0.4107 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.

Reference

Kuo B, et al. The LPA2 receptor agonist Radioprotectin-1 spares Lgr5-positive intestinal stem cells from radiation injury in murine enteroids. Cell Signal. 2018 Nov;51:23-33.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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