

RS-246204

Chemical Properties

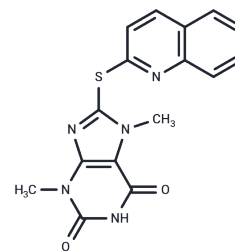
CAS No. : 878451-87-7

Formula: C₁₆H₁₃N₅O₂S

Molecular Weight: 339.37

Appearance: no data available

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



Biological Description

Description	RS-246204 is an R-spondin-1 substitute compound. RS-246204 is able to initiate small intestinal organoids without the use of the R-spondin-1 protein.
Targets(IC50)	Others
In vitro	RS-246204 could promote the initial formation and growth of enteroids in the medium without R-spondin-1. The enteroids grown with RS-246204 had a similar differentiation capacity as well as self-renewal capacity as the enteroids grown with R-spondin-1. The RS-246204-derived enteroids could successfully produce the forskolin-induced swelling and the organoid based epithelial to mesenchymal transition model [1].
In vivo	RS-246204 obviously enhanced BrdU+ cells and body weight in the DSS induced colitis model. RS-246204 activates the R-spondin dependent pathway in Lgr5 stem cells, thereby enhancing proliferation or the anti-apoptotic effect, promoting regeneration of the intestinal epithelium and reducing the disease severity [1].

Solubility Information

Solubility	DMSO: 5 mg/mL (14.73 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	2.9466 mL	14.7332 mL	29.4664 mL
5 mM	0.5893 mL	2.9466 mL	5.8933 mL
10 mM	0.2947 mL	1.4733 mL	2.9466 mL
50 mM	0.0589 mL	0.2947 mL	0.5893 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

Nam MO, et al. Effects of a small molecule R-spondin-1 substitute RS-246204 on a mouse intestinal organoid culture. Oncotarget. 2017 Dec 26;9(5):6356-6368.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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