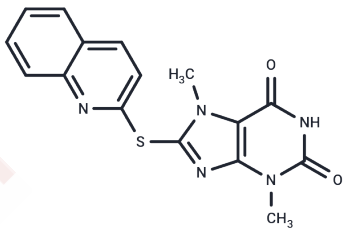
Data Sheet (Cat.No.T16799)

RS-246204

Chemical Properties



CAS No. : 878451-87-7

Formula: C16H13N5O2S

Molecular Weight: 339.37

Storage: Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	RS-246204 is an R-spondin-1 substitute compound capable of initiating and sustaining intestinal organoids in R-spondin-1-deficient media, activating R-spondin-dependent pathways in DSS-induced colitis models, and promoting regeneration of damaged intestinal epithelium.
Targets(IC50)	Others
In vitro	High concentrations of R-spondin-1 protein can substitute for R-spondin-1 in initiating and maintaining organoids, exhibiting differentiation and self-renewal capabilities comparable to those of intestinal organoids cultured with added R-spondin-1. Intestinal organoids derived from RS-246204 successfully produce carboxypeptidase-induced swelling and establish an organoid-based epithelial-mesenchymal transition model [1].
In vivo	RS-246204 increased BrdU+ cell numbers and body weight in a DSS-induced colitis model, activated the R-spondin-dependent pathway in Lgr5 stem cells, promoted intestinal epithelial regeneration, and alleviated disease severity [1].

Solubility Information

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

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.

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

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