

GSK-843

Chemical Properties

CAS No. : 1601496-05-2

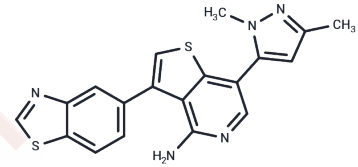
Formula: C₁₉H₁₅N₅S₂

Molecular Weight: 377.49

Store at low temperature

Storage: 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	GSK-843 (GSK'843) is a selective and potent RIP3 inhibitor with an IC ₅₀ value of 8.6 nM for the structural domain of RIP3 kinase. It has potential analgesic activity, inhibits the expression of RIP3 and NLRP3 in the SDH of CFA mice, and can be used as adjunctive therapy for treating inflammation.
Targets(IC ₅₀)	Apoptosis,RIP kinase
In vitro	RIP3i GSK-843 and GSK-872 by screening conventional small molecule libraries. These compounds bound RIP3 kinase domain with high affinity (IC ₅₀ = 8.6 nM and 1.8 nM, respectively,and inhibited kinase activity (IC ₅₀ = 6.5 nM and 1.3 nM, respectively[1].

Solubility Information

Solubility	DMSO: 30 mg/mL (79.47 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.3 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6491 mL	13.2454 mL	26.4908 mL
5 mM	0.5298 mL	2.6491 mL	5.2982 mL
10 mM	0.2649 mL	1.3245 mL	2.6491 mL
50 mM	0.053 mL	0.2649 mL	0.5298 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

Mandal P, et al. RIP3 induces apoptosis independent of pronecrotic kinase activity. *Mol Cell*. 2014 Nov 20;56(4):481-95.

Kaiser WJ, et al. Toll-like receptor 3-mediated necrosis via TRIF, RIP3, and MLKL. *J Biol Chem*. 2013 Oct 25;288(43):31268-79.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481