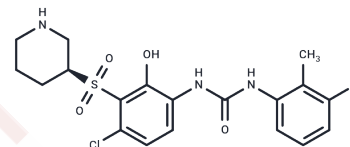


## Danirixin

## Chemical Properties

CAS No. :	954126-98-8
Formula:	C <sub>19</sub> H <sub>21</sub> ClFN <sub>3</sub> O <sub>4</sub> S
Molecular Weight:	441.9
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	Danirixin (GSK1325756) is a potent antagonist of CXCR2 that inhibits IL-8 binding to CXCR2 (IC <sub>50</sub> : 12.5 nM).
Targets(IC <sub>50</sub> )	CXCR
In vivo	Systemic exposure following single doses of danirixin 10 mg, 25 mg, 50 mg, 100 mg, and 200 mg increased with increasing dose. Engagement of pharmacology was demonstrated as inhibition of ex-vivo CXCL1-induced CD11b expression on peripheral blood neutrophils when compared to placebo (approximately 50 % for 50 mg and 100 mg danirixin, and 72 % at 200 mg). There was a 37 % decrease in C <sub>max</sub> and a 16 % decrease in AUC (0-∞) following administration of danirixin in the presence of food. C <sub>max</sub> also decreased by 65 % when danirixin 100 mg was administered following omeprazole 40 mg once daily for 5 days [1].

## Solubility Information

Solubility	DMSO: 60 mg/mL (135.78 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: 5 mg/mL (11.31 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.263 mL	11.3148 mL	22.6296 mL
5 mM	0.4526 mL	2.263 mL	4.5259 mL
10 mM	0.2263 mL	1.1315 mL	2.263 mL
50 mM	0.0453 mL	0.2263 mL	0.4526 mL

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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

Miller BE, et al. The pharmacokinetics and pharmacodynamics of danirixin (GSK1325756)--a selective CXCR2 antagonist --in healthy adult subjects. BMC Pharmacol Toxicol. 2015 Jun 20;16:18.

Miller BE, et al. The pharmacokinetics of conventional and bioenhanced tablet formulations of danirixin (GSK1325756) following oral administration in healthy, elderly, human volunteers. Eur J Drug Metab Pharmacokinet. 2014 Sep;39(3):173-81.

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