

## Dersalazine

## Chemical Properties

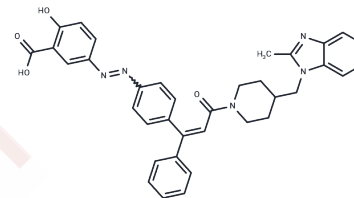
CAS No. : 188913-58-8

Formula: C<sub>35</sub>H<sub>32</sub>N<sub>6</sub>O<sub>4</sub>

Molecular Weight: 600.67

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	Dersalazine (Dersalazine Free Base), an inhibitor of platelet-activating factor, exerts intestinal anti-inflammatory activity in different rodent types of colitis by down-regulating IL-17 expression, with potential efficacy in patients with ulcerative colitis.
Targets(IC50)	Platelet aggregation,IL Receptor,PAFR
In vivo	Dersalazine sodium (DS) (10 or 30 mg/kg; b.i.d.; rats), when administered for 7 days, showed intestinal anti-inflammatory effects in TNBS-induced colitis; these effects were observed both macroscopically and through the profile of inflammatory mediators (TNF, IL-1 $\beta$ , IL-6, and IL-17). Although the 2 day treatment with DS did not induce intestinal anti-inflammatory effects, it was sufficient to reduce the enhanced IL-17 expression. DS showed beneficial effects on DSS-induced colitis in C57BL/6 mice and reduced colonic pro-inflammatory cytokines IL-1 $\beta$ , IL-6, and IL-17.[2]

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble) DMSO: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.6648 mL	8.324 mL	16.6481 mL
5 mM	0.333 mL	1.6648 mL	3.3296 mL
10 mM	0.1665 mL	0.8324 mL	1.6648 mL
50 mM	0.0333 mL	0.1665 mL	0.333 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

Pontes C, et al. Safety and activity of dersenazine sodium in patients with mild-to-moderate active colitis: double-blind randomized proof of concept study. *Inflamm Bowel Dis.* 2014;20(11):2004-2012.

Camuesco D, et al. The intestinal anti-inflammatory effect of dersenazine sodium is related to a down-regulation in IL-17 production in experimental models of rodent colitis. *Br J Pharmacol.* 2012;165(3):729-740.

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