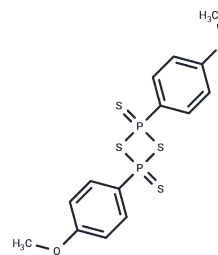


Lawesson's reagent

Chemical Properties

CAS No. :	19172-47-5
Formula:	C ₁₄ H ₁₄ O ₂ P ₂ S ₄
Molecular Weight:	404.47
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	Lawesson's reagent is a thiation agent. It is incompatible with strong oxidizing agents.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4724 mL	12.3619 mL	24.7237 mL
5 mM	0.4945 mL	2.4724 mL	4.9447 mL
10 mM	0.2472 mL	1.2362 mL	2.4724 mL
50 mM	0.0494 mL	0.2472 mL	0.4945 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

Nicolau LA, Silva RO, Damasceno SR, Carvalho NS, Costa NR, Aragão KS, Barbosa AL, Soares PM, Souza MH, Medeiros JV. The hydrogen sulfide donor, Lawesson's reagent, prevents alendronate-induced gastric damage in rats. *Braz J Med Biol Res.* 2013 Aug;46(8):708-14. doi: 10.1590/1414-431X20133030. Epub 2013 Aug 16. PubMed PMID: 23969974; PubMed Central PMCID: PMC3854416.

Kumar SV, Parameshwarappa G, Ila H. Synthesis of 2,4,5-trisubstituted thiazoles via Lawesson's reagent-mediated chemoselective thionation-cyclization of functionalized enamides. *J Org Chem.* 2013 Jul 19;78(14):7362-9. doi: 10.1021/jo401208u. Epub 2013 Jul 10. PubMed PMID: 23815778.

Huang P, Zhang R, Liang Y, Dong D. Lawesson's reagent-initiated domino reaction of aminopropenoyl cyclopropanes: synthesis of thieno[3,2-c]pyridinones. *Org Biomol Chem.* 2012 Feb 28;10(8):1639-44. doi: 10.1039/c2ob06709a. Epub 2012 Jan 11. PubMed PMID: 22234526.

Qiu G, Hu Y, Ding Q, Peng Y, Hu X, Wu J. Synthesis of 4-methylene-4H-benzo[d][1,3]thiazines via a tandem reaction of 1-(2-alkynylphenyl)ketoximes with Lawesson's reagent. *Chem Commun (Camb).* 2011 Sep 14;47(34):9708-10. doi: 10.1039/c1cc12937f. Epub 2011 Jul 27. PubMed PMID: 21792441.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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