



LKT Laboratories, Inc.

Diacerein

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## Product Information

Product ID D3303

CAS No. 13739-02-1

### Chemical Name

Synonym diacetylrhein

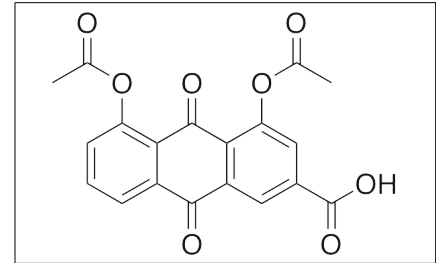
Formula  $C_{19}H_{12}O_8$

Formula Wt. 368.29

Melting Point 217-218°C

Purity  $\geq 98\%$

Solubility



**Bulk quantities available upon request**

Product ID	Size
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D3303	50 mg
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D3303	250 mg
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Store Temp Ambient

Ship Temp Ambient

**Description** Diacerein is an anthraquinone that exhibits antinociceptive, anti-inflammatory, and anti-resorptive activities. Diacerein is clinically used to treat osteoarthritis. In vivo, diacerein inhibits IL-1 $\beta$  as well as somatic nociception induced by glutamate, NMDA, and kainate. In vitro, diacerein decreases expression of matrix metalloproteinase 13 (MMP13), cathepsin K, ERK1/2, and p38 MAPK, resulting in decreases in the synthesis of resorptive factors and in osteoclast formation. In other cellular models, diacerein inhibits IL-1.

**References** Gadotti VM, Martins DF, Pinto HF, et al. Diacerein decreases visceral pain through inhibition of glutamatergic neurotransmission and cytokine signaling in mice. *Pharmacol Biochem Behav.* 2012 Oct;102(4):549-54. PMID: 22750064.

Boileau C, Tat SK, Pelletier JP, et al. Diacerein inhibits the synthesis of resorptive enzymes and reduces osteoclastic differentiation/survival in osteoarthritic subchondral bone: a possible mechanism for a protective effect against subchondral bone remodelling. *Arthritis Res Ther.* 2008;10(3):R71. PMID: 18578867.

Fidelix TS, Soares BG, Trevisani VF. Diacerein for osteoarthritis. *Cochrane Database Syst Rev.* 2006 Jan 25;(1): CD005117. PMID: 16437519.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.