**Product Information**

**Diacerein**  
*Item No. 11710*

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**CAS Registry No.:** 13739-02-1  
**Formal Name:** 4,5-bis(acetyloxy)-9,10-dihydro-9,10-dioxo-2-anthracene-carboxylic acid  
**Synonyms:** diacerein, 4,5-diacetyl-rhein, SF-277  
**MF:** C_{19}H_{12}O_{8}  
**FW:** 368.3  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ_{max}: 216, 255, 337 nm

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**Laboratory Procedures**

For long term storage, we suggest that diacerein be stored as supplied at -20°C. It should be stable for at least 2 years.

Diacerein is supplied as a crystalline solid. A stock solution may be made by dissolving the diacerein in the solvent of choice. Diacerein is soluble in organic solvents such as DMSO, which should be purged with an inert gas. The solubility of diacerein in this solvent is approximately 15 mg/ml.

Diacerein is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, diacerein should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Diacerein has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Diacerein is a diacetyl precursor of rhein, an anthraquinone found in plants. Rhein, at 10 µM, inhibits IL-1β signaling, suppressing the expression of the matrix metalloproteases MMP-1 and MMP-13.1,2 Diacerein, presumably after conversion to rhein, down-regulates the expression of the IL-1β receptor on articular chondrocytes, enhances the expression of TGF-β, and increases collagen and aggrecan.3 It does not alter COX activity.3 It is mildly effective in ameliorating osteoarthritis.4,5

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**References**


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**Related Products**

For a list of related products please visit: [www.caymanchem.com/catalog/11710](http://www.caymanchem.com/catalog/11710)

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**WARNING:** This product is for laboratory research only: not for administration to humans, not for human or veterinary diagnostic or therapeutic use.

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**SAFETY DATA**

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent to your email at your institution.

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