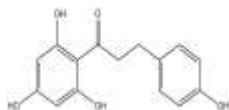


PRODUCT: Phloretin**ALTERNATE NAME:** 3-(4-hydroxyphenyl)-1-(2,4,6-trihydroxyphenyl)-1-propanone; NSC 407292; RJC 02792**CATALOG #:** 9625-100, 500**AMOUNT:** 100 mg, 500 mg**STRUCTURE:****MOLECULAR FORMULA:** C₁₅H₁₄O₅**MOLECULAR WEIGHT:** 274.27**CAS NUMBER:** 60-82-2**APPEARANCE:** White to off-white solid**SOLUBILITY:** DMSO (>25 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20°C. Protect from air and light**DESCRIPTION:** Phloretin is a natural phenol which inhibits a variety of transporters. It inhibits the monocarboxylate transporters MCT1 and MCT2 (IC₅₀ = 28 and 14 μM, respectively), restricting the rapid transport of monocarboxylates like lactate and pyruvate across the plasma membrane. Phloretin also blocks the sodium/D-glucose cotransporter (K_i = 86 μM) and the human concentrative nucleoside transporter 3 (K_i = 32 μM). Blocks L-type Ca²⁺ channels; activates Ca²⁺-activated K⁺ channels in amphibian myelinated nerve fibers.**REFERENCE:** Sasaki, A., *et al.* (2015). *Hum.Cell* Nov. 9 [Epub ahead of print]**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**Dapagliflozin (**Cat. No. 9452-10,50**)Empgliclozin (**Cat. No. 2877-10,50**)LX-4211 (**Cat. No. 9623-5,25**)Phlorizin (**Cat. No. 2416-100, 500**)**USAGE:** **FOR RESEARCH USE ONLY! Not to be used in humans**