Product Data Sheet

Product Name: Probenecid
CAS No.: 57-66-9
Cat. No.: HY-B0545
MWt: 285.36
Formula: C13H19NO4S
Purity: >98%

Solubility: DMSO 57 mg/mL; Water <1 mg/mL

Mechanisms:
Pathways: Others; Target: Others

Biological Activity:
Probenecid inhibits the renal excretion of organic anions and reduces tubular reabsorption of urate.

Target: Others
Probenecid is able to prevent the efflux of calcium-sensitive fluorescent dyes during studies of cellular calcium mobilization. Probenecid (2.5 mM) is found to block the export of Fura-2 from 1321N1 astrocytoma cells, and does not change the basal calcium concentration or the muscarinic calcium response [1]. Probenecid is able to interact with organic anion transporters (OAT). 0.1 mM Probenecid efficiently inhibits ATP-dependent active vesicular N-ethylmaleimide glutathione (NEM-GS) uptake by Human Multidrug Resistance Proteins 1 (MRP1) and MRP2. In isolated Sf9 cell membranes, Probenecid stimulates ATPase activity of MRP2 with approximate KACT of 250 μM, but inhibits ATPase activity of MRP1 [2]. Probenecid is an inhibitor of the hTAS2R16, hTAS2R38, and h...

References:

Caution: Not fully tested. For research purposes only
Medchemexpress LLC
www.medchemexpress.com

18 Wilkinson Way, Princeton, NJ 08540, USA
Tel: 609-228-6898 Fax: 609-228-5909 Email: info@medchemexpress.com Web: www.medchemexpress.com