Diclofenac Acyl-β-D-Glucuronide
Item No. 22455

CAS Registry No.: 64118-81-6
Formal Name: β-D-glucopyranuronic acid, 1-[2-[(2,6-dichlorophenyl)amino]benzeneacetate]
MF: C₂₀H₁₉Cl₂NO₈
FW: 472.3
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Diclofenac acyl-β-D-glucuronide is supplied as a solid. A stock solution may be made by dissolving the XX in the solvent of choice. Diclofenac acyl-β-D-glucuronide is soluble in organic solvents such as methanol and DMSO, which should be purged with an inert gas.

Description

Diclofenac acyl-β-D-glucuronide is an active metabolite of diclofenac (Item No. 70680) and the predominant metabolite in rat.¹ Diclofenac acyl-β-D-glucuronide is acutely toxic in vitro, suggesting it may play a role in the hepatotoxicity of diclofenac in vivo.² Diclofenac acyl-β-D-glucuronide binds to organic anion transporters (OATs; Kₘ = 60.2, 8.6, 112, and 103.9 µM for OAT1-4, respectively) as well as multi-drug resistance proteins.³ High levels of diclofenac are found in waste water treatment plant samples, which may be due to the back-transformation of diclofenac acyl-β-D-glucuronide to diclofenac.⁴

References