

Product Data Sheet

Product Name: Fenoprofen-¹³C₆ (sodium salt hydrate)

Cat. No.: GC91909

Chemical Properties

Cas. No. 2687960-29-6

Chemical Name α -methyl-3-(phenoxy-1,2,3,4,5,6-¹³C₆)-benzeneacetic acid, monosodium salt, hydrate

SMILES CC(C1=CC=CC(O[13C]2=[13CH][13CH]=[13CH][13CH]=[13CH]2)=C1)C([O-])=O.[Na+].O

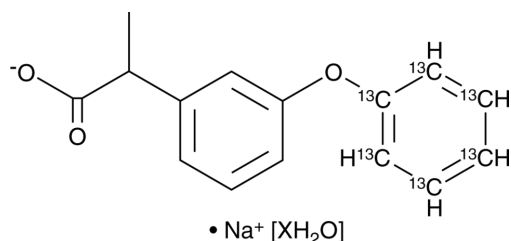
Formula C₉[¹³C]₆H₁₃O₃ ? Na [XH₂O] M.Wt 270.2

Solubility DMSO: Soluble Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Fenoprofen-¹³C₆ is intended for use as an internal standard for the quantification of fenoprofen by GC- or LC-MS. Fenoprofen is a non-steroidal anti-inflammatory drug (NSAID).¹ It inhibits spontaneous and estradiol-stimulated prostaglandin F_{2α} (PGF_{2α}) release by 84% in isolated rat uterine horns when used at a concentration of 33 μM. Fenoprofen (10 mg/kg, i.p.) reduces serum PGF_{2α} levels in rats. It reduces acetic acid-induced writhing and stretching and formalin-induced

Caution: Product has not been fully validated for medical applications. For research use only.

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licking behaviors in mice, however, it also induces the formation of gastric lesions in mice.² Formulations containing fenoprofen have been used in the treatment of pain and the signs and symptoms of rheumatoid arthritis and osteoarthritis.

References:

[1]. Patrono, C., Ciabattoni, G., and Grossi-Belloni, D. In vitro and in vivo inhibition of prostaglandin synthesis by fenoprofen, a non steroid anti-inflammatory drug *Pharmacol. Res. Commun.* 6(5)509-518(1974).

[2]. Agotegaray, M., Gumilar, F., Boeris, M., et al. Enhanced analgesic properties and reduced ulcerogenic effect of a mononuclear copper(II) complex with fenoprofen in comparison to the parent drug: Promising insights in the treatment of chronic inflammatory diseases *Biomed. Res. Int.* 505987(2014).

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