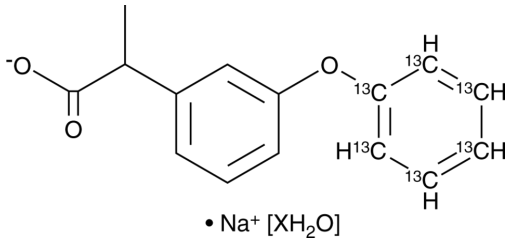
Product Data Sheet

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	$C_9[13C]6H_{13}O_3$? Na [XH_2O]	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-$^{13}C_6$ 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 $F_{2\alpha}$ ($PGF_{2\alpha}$) release by 84% in isolated rat uterine horns when used at a concentration of 33 μM. Fenoprofen (10 mg/kg, i.p.) reduces serum $PGF_{2\alpha}$ levels in rats. It reduces acetic acid-induced writhing and stretching and formalin-induced

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 drugPharmacol. 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 diseasesBiomed. Res. Int.505987(2014).