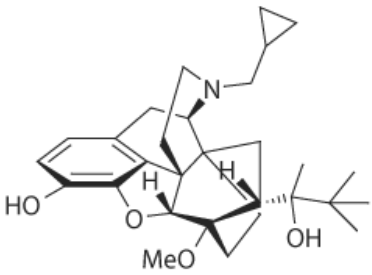
Catalogue Number	Product	Order number / Unit

2056 Buprenorphine hydrochloride

2056.0010: 10 mg per vial
Please inquire for customized filling and bulk quantities.

Reference standard for 6-O-[^{11}C]-buprenorphine

Controlled substance, license required in most countries.



Molar Mass: 504.10

$C_{29}H_{41}NO_4 \cdot HCl$

[53152-21-9]

Colourless to off-white crystalline powder packaged in dark glass crimp cap vials.

Purity: > 95 %

Certificates:
CoA; ^{1}H and ^{13}C NMR spectra

Chemical Name:
CA index names: 6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)-α-(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-3-hydroxy-6-methoxy-α-methyl-, hydrochloride (1:1); 6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)-α-(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-3-hydroxy-6-methoxy-α-methyl-, hydrochloride, [5α,7α(S)]-; 6,14-Ethenomorphinan-7-methanol, 17-(cyclopropylmethyl)-α-(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-3-hydroxy-6-methoxy-α-methyl-, hydrochloride, (αS,5α,7α)-

Synonymes:
Buprederm; Buprenex

Literature:

Luthra S.K. et al. Automated radiosyntheses of [6-O-methyl-^{11}C]-diprenorphine and [6-O-methyl-^{11}C] buprenorphine from 3-O-trityl protected precursors. Appl. Radiat. Isot. 1994, 45, 857-873.

Luthra S.K. et al. Preparation of [^{11}C]buprenorphine - A potential radioligand for the study of the opiate receptor system in vivo. Int. J. Rad. Appl. Instrum. A. 1987, 38, 65-6.

Lever J.R. et al. Facile synthesis of [^{11}C]buprenorphine for positron emission tomographic studies of opioid receptors. J. Rad. Appl. Instrum. A, 1990, 41, 745-52.

Shiue C.Y. et al. A comparison of the brain uptake of N-(cyclopropyl[^{11}C]methyl)norbuprenorphine ([^{11}C] buprenorphine) and N-(cyclopropyl[^{11}C]methyl)nordiprenorphine ([^{11}C]diprenorphine) in baboon using PET. Int. J. Rad. Appl. Instrum. B, 1991, 18, 281-288.

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