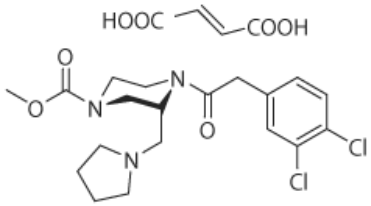
Catalogue Number	Product	Order number / Unit

2070 GR 89696 fumarate

2070.0001: 1 mg per vial
2070.0005: 5 mg per vial
2070.0010: 10 mg per vial
Please inquire for customized filling and bulk quantities.



Reference standard for (R)-(-)-[^{11}C]GR 103545 and (S)-(+)-[^{11}C]GR 103545
Highly potent and selective κ opioid receptor agonist

Molar Mass: 530.40

$C_{19}H_{25}Cl_2N_3O_3 \cdot C_4H_4O_4$

[126766-32-3]

Off-white solid packaged in dark glass crimp cap vials.

Purity: > 95 %

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

Chemical Name:
CA index name: 1-Piperazinecarboxylic acid, 4-[(3,4-dichlorphenyl)acetyl]-3-(1-pyrrolidinylmethyl)-, methyl ester, (E)-2-butenedioate (1:1)

Synonymes:
GR 89696 fumarate salt; 4-[(3,4-dichlorphenyl)acetyl]-3-(1-pyrrolidinylmethyl)-1-piperazinecarboxylic acid methyl ester fumarate

Literature:

Ravert H.T. et al. [^{11}C]-GR 89696, a potent kappa opiate receptor radioligand; in vivo binding of the R and S enantiomers. Nuc. Med. Biol. 2002, 29, 47-53.

Talbot P.S. et al. ^{11}C-GR 103545, a Radiotracer for Imaging κ-Opioid Receptors In Vivo with PET: Synthesis and Evaluation in Baboons. J. Nucl. Med. 2005, 46, 484-494.

Naylor A. et al. A Potent New class of κ-Receptor Agonist: 4-Substituted 1-(Arylacetyl)-2-[(dialkylamino) methyl]piperazines. J. Med. Chem. 1993, 36, 2075-2083.

Schoultz B.W. et al. A New Method for Radiosynthesis of ^{11}C-Labeled Carbamate Groups and its Application for a Highly Efficient Synthesis of the Kappa-Opioid Receptor Tracer [^{11}C]GR 103545. The Open Med. Chem. J. 2008, 2 ,72-74.

date of product catalogue issue: 10 May 2017