

Product Name: MaxiPost

Catalog No.: 4949

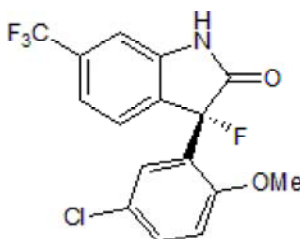
Batch No.: 2

CAS Number: 187523-35-9

IUPAC Name: (3S)-3-(5-Chloro-2-methoxyphenyl)-3-fluoro-1,3-dihydro-6-(trifluoromethyl)-2H-Indol-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₀ClF₄NO₂
Batch Molecular Weight: 359.7
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.58 (Dichloromethane)
HPLC: Shows 99.5% purity
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure
 Optical Rotation: [α]_D = +142 (Concentration = 0.132, Solvent = Methanol)
 Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.42	2.8	3.89
Found	53.4	2.72	3.79

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Name: MaxiPost

Catalog No.: 4949

Batch No.: 2

CAS Number: 187523-35-9

IUPAC Name: (3S)-3-(5-Chloro-2-methoxyphenyl)-3-fluoro-1,3-dihydro-6-(trifluoromethyl)-2H-Indol-2-one

Description:

Potassium channel modulator. Acts as a positive modulator at neuronal K_v7 channels and calcium-activated K⁺ channels (BK_{Ca}) in HEK293 cells. Displays negative modulatory activity at K_v7.1 channels (K_i = 3.7 μM) and GABA_A receptors. Displays anxiolytic activity in vivo.

Physical and Chemical Properties:

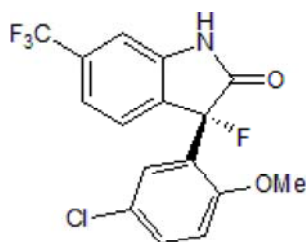
Batch Molecular Formula: C₁₆H₁₀ClF₄NO₂

Batch Molecular Weight: 359.7

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Jepps et al (2012) One man's side effect is another man's therapeutic opportunity: targeting K_v7 channels in smooth muscle disorders. *Br.J.Pharmacol.* **168** 19. PMID: 22880633.

Hamashima et al (2005) Catalytic enantioselective fluorination of oxindoles. *J.Am.Chem.Soc.* **127** 10164. PMID: 16028916.

Korsgaard et al (2005) Anxiolytic effects of Maxipost (BMS-204352) and retigabine via activation of neuronal Kv7 channels. *J.Pharmacol.Exp.Ther.* **314** 282. PMID: 15814569.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956