

Certificate of Analysis

www.tocris.com

Product Name: PKRA 7

Catalog No.: 6238

Batch No.: 2

IUPAC Name: (3*R*)-*N*-[(9-Chloro-3,4-dihydro-2*H*-1,5-benzodioxepin-7-yl)methyl]-1-[(4-fluoro-3-methoxyphenyl)methyl]-*N*-(2-methylpropyl)-3-pyrrolidinecarboxamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₃₄ClFN₂O₄.HCl.½H₂O

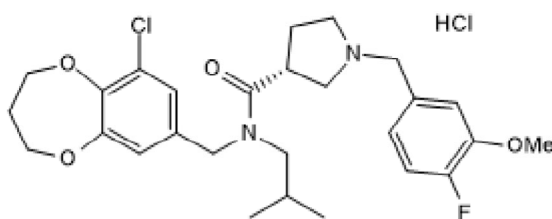
Batch Molecular Weight: 550.49

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

Chiral HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical 58.91 6.59 5.09

Found 57.95 6.62 5.14

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

Product Name: PKRA 7

Catalog No.: 6238

Batch No.: 2

IUPAC Name: (3*R*)-*N*-[(9-Chloro-3,4-dihydro-2*H*-1,5-benzodioxepin-7-yl)methyl]-1-[(4-fluoro-3-methoxyphenyl)methyl]-*N*-(2-methylpropyl)-3-pyrrolidinecarboxamide hydrochloride

Description:

PKRA 7 is a potent prokineticin (PK) receptor antagonist (IC₅₀ values are 5.0 and 8.2 nM for PKR1 and PKR2, respectively). Reduces IL-1β and IL-6 expression in the joints and suppresses severity of arthritis in a mouse model of rheumatoid arthritis. Inhibits PK2-induced expression of pro-migratory chemokines and chemokine receptors in macrophages. Exhibits antitumor activity against glioblastoma and pancreatic cancer xenograft tumor models. Also exhibits antiangiogenic activity in vivo. Brain penetrant. Cell-permeable.

Physical and Chemical Properties:

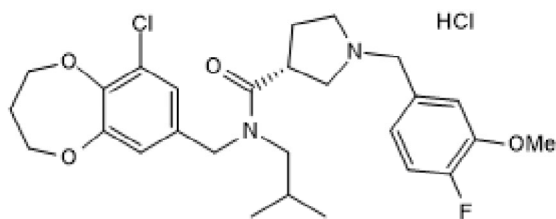
Batch Molecular Formula: C₂₇H₃₄ClFN₂O₄·HCl·½H₂O

Batch Molecular Weight: 550.49

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Ito et al (2016) Prokineticin 2 antagonist, PKRA7 suppresses arthritis in mice with collagen-induced arthritis. *BMC Musculoskelet.Disord.* **17** 387. PMID: 27609223.

Curtis et al (2013) A PK2/Bv8/PROK2 antagonist suppresses tumorigenic processes by inhibiting angiogenesis in glioma and blocking myeloid cell infiltration in pancreatic cancer. *PLoS One* **8** e54916. PMID: 23372791.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

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