

Product Data Sheet

Product Name: CGP 77675 (hydrate)

Cat. No.: GC48992

Chemical Properties

Cas. No. N/A

SMILES OC1CCN(CCC2=CC=C(N3C4=NC=NC(N)=C4C(C5=CC=CC(OC)=C5)=C3)C=C2)CC1.O

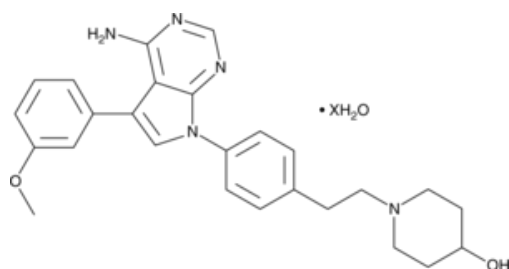
Formula C₂₆H₂₉N₅O₂·XH₂O M.Wt 443.5

Solubility DMSO: 10 mg/ml Storage Store at -20°C

General For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT , or Condition blue ice upon request.

Structure



Background

CGP 77675 is an inhibitor of Src family kinases (SFKs) that blocks the phosphorylation of peptide substrates and autophosphorylation of purified c-Src (IC₅₀s = 5-20 and 40 nM, respectively).¹ It also inhibits the SFKs Lck and c-Yes with low nanomolar IC₅₀ values.^{1,2,3} CGP 77675 is used to elucidate the role of SFKs in such processes as bone resorption, tight junction formation in epithelial cells, and allograft survival.^{2,1,4} It can also be used in combination with the GSK3 inhibitor CHIR99021 to maintain mouse embryonic stem cells.⁵

1. Missbach, M., Jeschke, M., Feyen, J., et al. A novel inhibitor of the tyrosine kinase Src suppresses

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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phosphorylation of its major cellular substrates and reduces bone resorption in vitro and in rodent models in vivo *Bone* 24(5)437-449(1999) 2.Chen, Y.-H., Goodenough, D.A., and Jeansonne, B. Nonreceptor tyrosine kinase c-Yes interacts with occludin during tight junction formation in canine kidney epithelial cells *Mol. Biol. Cell* 13(4)1227-1237(2002) 3.šušá, M., Luong-Nguyen, N.-H., Crespo, J., et al. Active recombinant human tyrosine kinase c-Yes: expression in baculovirus system, purification, comparison to c-Src, and inhibition by a c-Src inhibitor *Protein Expr. Purif.* 19(1)99-106(2000) 4.Zhang, Q., Fairchild, R.L., Reich, M.B., et al. Inhibition of Src kinases combined with CD40 ligand blockade prolongs murine cardiac allograft survival *Transplantation* 80(8)1112-1120(2005) 5.Shimizu, T., Ueda, J., Ho, J.C., et al. Dual inhibition of Src and GSK3 maintains mouse embryonic stem cells, whose differentiation is mechanically regulated by Src signaling *Stem Cells* 30(7)1394-1404(2012)

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