

Product Data Sheet

Product Name: Hydroxy Bosentan

Cat. No.: GC43876

Chemical Properties

Cas. No. 253688-60-7

SMILES COC1=CC=CC=C1OC2=C(NS(C3=CC=C(C(C)(CO)C)C=C3)(=O)=O)N=C(C4=NC=CC=N4)N=C2OCCO

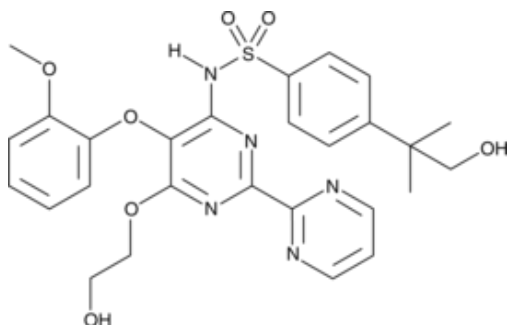
Formula C₂₇H₂₉N₅O₇S M.Wt 567.6

Solubility Soluble in DMSO Storage Store at -20°C

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

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

Structure



Background

Hydroxy bosentan is an active phase I metabolite of bosentan produced by the cytochrome P450 isoforms CYP3A4 and CYP2C9. Bosentan is an antagonist of the endothelin receptors type A ($K_i = 6.5$ nM) and type B ($K_i = 340$ nM). Up to 20% of the activity of bosentan may be due to the action of hydroxy bosentan because even though it has a lower affinity for endothelin receptors, its concentration is 3-fold higher in plasma.

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

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