Hydroxy Bosentan
Item No. 22366

CAS Registry No.: 253688-60-7
Formal Name: 4-(2-hydroxy-1,1-dimethylethyl)-N-[6-(2-hydroxyethoxy)-5-(2-methoxyphenoxy)[2,2’-bipyrimidin]-4-yl]-benzenesulfonamide
Synonyms: Ro 48-5033, Ro 48-8634
MF: C_{27}H_{29}N_{5}O_{7}S
FW: 567.6
Purity: ≥98%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Hydroxy bosentan is supplied as a crystalline solid. A stock solution may be made by dissolving the hydroxy bosentan in the solvent of choice, which should be purged with an inert gas. Hydroxy bosentan is soluble in the organic solvent DMSO.

Description

Hydroxy bosentan is an active phase I metabolite of bosentan (Item No. 11731) produced by the cytochrome P450 isofoms CYP3A4 and CYP2C9.1,2 Bosentan is an antagonist of the endothelin receptors type A (K_i = 6.5 nM) and type B (K_i = 340 nM).3,4 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.5

References