PRODUCT INFORMATION



Bosentan

Item No. 11731

CAS Registry No.:	147536-97-8	
Formal Name:	4-(1,1-dimethylethyl)-N-[6-(2-	0,0
	hydroxyethoxy)-5-(2-methoxyphenoxy)	H S
	[2,2'-bipyrimidin]-4-yl]-	Ĭ Ň Ĭ
	benzenesulfonamide	
Synonym:	Ro 47-0203	
MF:	C ₂₇ H ₂₉ N ₅ O ₆ S	
FW:	551.6	
Purity:	≥98%	
UV/Vis.:	λ _{max} : 215, 267 nm	N
Supplied as:	A crystalline solid	ĺ
Storage:	-20°C	о́н
Stability:	≥4 years	
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Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Bosentan is supplied as a crystalline solid. A stock solution may be made by dissolving the bosentan in the solvent of choice, which should be purged with an inert gas. Bosentan is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of bosentan in these solvents is approximately 11, 12, and 20 mg/ml, respectively.

Bosentan is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, bosentan should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Bosentan has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Bosentan is an antagonist of the endothelin receptors type A ($K_i = 6.5$ nM) and type B ($K_i = 340$ nM).^{1,2}

References

- 1. Jae, H.-S., Winn, M., Dixon, D.B., et al. Pyrrolidine-3-carboxylic acids as endothelin antagonists. Sulfonamide-based ETA/ETB mixed antagonists. J. Med. Chem. 40(20), 3217-3227 (1997).
- 2. Wu, C., Decker, E.R., Blok, H., et al. Discovery, modeling, and human pharmacokinetics of N-(2-acetyl-4,6dimethylphenyl)-3-(3,4-dimethylisoxazol-5-ylsulfamoyl)-thiophene-2-carboxamide (TBC3711), a second generation, ETA selective, and orally bioavailable endothelin antagonist. J. Med. Chem. 47(8), 1969-1986 (2004).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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