**PRODUCT INFORMATION**

**BW A868C**

*Item No. 12060*

**CAS Registry No.:** 118675-50-6  
**Formal Name:** 3-[(2-cyclohexyl-2-hydroxyethyl)amino]-2,5-dioxo-1-(phenylmethyl)-4-imidazolidineheptanoic acid  
**MF:** C_{25}H_{37}N_{3}O_{5}  
**FW:** 459.6  
**Purity:** ≥98%  
**Supplied as:** A solution in ethanol  
**Storage:** -20°C  
**Stability:** ≥1 year

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

**Laboratory Procedures**

BW A868C is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of BW A868C in these solvents is approximately 20 and 30 mg/ml, respectively.

BW A868C is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of BW A868C should be diluted with the aqueous buffer of choice. The solubility of BW A868C in PBS (pH 7.2) is approximately 0.25 mg/ml. We do not recommend storing the aqueous solution for more than one day.

**Description**

BW A868C is a hydantoin compound that is structurally related to the DP receptor agonist BW 245C.\(^1\)\(^2\) BW A868C antagonizes the prostaglandin D\(_2\) and BW 245C-induced activation of human platelet adenylate cyclase. It reverses the anti-aggregatory effects of DP receptor agonists in a dose-dependent manner. Likewise, BW A868C antagonizes the accumulation of cAMP in rabbit non-pigmented ciliary epithelial cells.\(^3\) It has virtually no effect on human TP, IP, EP\(_1\), EP\(_2\), and FP receptors. The K\(_i\) for BW A868C is approximately 1.7 nM.\(^4\)

**References**