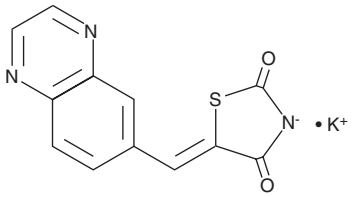
PRODUCT INFORMATION

AS-605240 (potassium salt)

Item No. 9000980

Formal Name: 5-(6-quinoxalinylmethylene)-2,4-thiazolidinedione, monopotassium salt
MF: $C_{12}H_6N_3O_2S \bullet K$
FW: 295.4
Purity: ≥98%
UV/Vis.: λ_{max}: 251, 291, 370 nm
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

AS-605240 (potassium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the AS-605240 (potassium salt) in the solvent of choice, which should be purged with an inert gas. AS-605240 (potassium salt) is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of AS-605240 (potassium salt) in these solvents is approximately 5 and 3 mg/ml, respectively.

AS-605240 (potassium salt) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, AS-605240 (potassium salt) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. AS-605240 (potassium salt) has a solubility of approximately 0.1 mg/ml in a 1:10 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

AS-605240 is an orally active inhibitor of PI3-kinase γ that suppresses joint inflammation in mouse models of rheumatoid arthritis.[1] It inhibits human recombinant PI3Kγ, α, β, and δ in an ATP-competitive manner with IC_{50} values of 8, 60, 270, and 300 nM, respectively.[1] AS-605240 inhibits C5a-mediated phosphorylation of protein kinase B in RAW 264 cells with an IC_{50} value of 90 nM. *In vivo*, AS-605240 reduced RANTES-induced peritoneal neutrophil recruitment in a mouse model of leukocyte chemotaxis with an ED_{50} value of 9.1 mg/kg. AS-605240 (potassium salt) has improved solubility compared to AS-605240 (Item No. 10007707).

Reference

1. Camps, M., Rückle, T., Ji, H., *et al.* Blockade of PI3K g suppresses joint inflammation and damage in mouse models of rheumatoid arthritis. *Nat. Med.* **11(9)**, 936-943 (2005).

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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