The tyrosine kinase inhibitor tyrphostin AG126 reduces renal...warrants only...warranty and limitation of remedy located on our website and in our catalog.

**Laboratory Procedures**

For long term storage, we suggest that AG-126 be stored as supplied at -20°C. It should be stable for at least two years.

AG-126 is supplied as a crystalline solid. A stock solution may be made by dissolving the AG-126 in an organic solvent purged with an inert gas. AG-126 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of AG-126 in ethanol is approximately 0.15 mg/ml and approximately 10 mg/ml in DMSO and DMF.

AG-126 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, AG-126 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. AG-126 has a solubility of approximately 0.5 mg/ml in 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Tyrphostins are a family of protein tyrosine kinase inhibitors originally developed to inhibit cell growth by blocking the activity of certain growth factor receptor kinases (GFRK). The tyrphostin AG-126 selectively inhibits the phosphorylation of ERK1 (p44) and ERK2 (p42) at 25-50 μM.\(^1\,\,\,^2\) It blocks the production of TNF-α in vitro\(^2\) and in vivo,\(^1\,\,\,^2\) attenuating signaling through NF-κB,\(^3\) the induced expression of COX-2 and iNOS,\(^3\,\,\,^4\) and the inflammatory response in diverse animal models.\(^5\,\,\,^3\) AG-126 is a poor inhibitor of epidermal GFRK (IC\(_{50}\) = 450 μM)\(^6\) and platelet-derived GFRK (IC\(_{50}\) > 100 μM).\(^7\)

**References**


**Related Products**

AG-879 - Item No. 10793 • AG-825 - Item No. 10010268 • AG-1478 - Item No. 10010244 • AG-490 - Item No. 10010311 • AG-82 - Item No. 10010312 • AG-370 - Item No. 10010568 • AG-1296 - Item No. 10010592

**Warning:** This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

**Material Safety Data**

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent by email to your institution.

**Warranty and Limitation of Remedy**

Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, salability and merchantability, which extends beyond the description of the chemicals herewith. Cayman warrants only to the original customer that the material will meet our specifications when used as directed. Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement at no cost to Buyer, of all material that does not meet our specifications. Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.

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