PRODUCT INFORMATION



AG-183

Item No. 10010315

CAS Registry No.: 122520-90-5

Formal Name: 2-amino-4-(3,4,5-trihydroxyphenyl)-1,3-

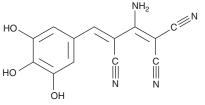
butadiene-1,1,3-tricarbonitrile

Synonym: Tyrphostin 51 MF: $C_{13}H_8N_4O_3$ FW: 268.2 ≥98% **Purity:**

UV/Vis.: λ_{max} : 202, 248, 389 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

AG-183 is supplied as a crystalline solid. A stock solution may be made by dissolving the AG-183 in the solvent of choice, which should be purged with an inert gas. AG-183 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of AG-183 in these solvents is approximately 20 mg/ml.

AG-183 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, AG-183 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. AG-183 has a solubility of approximately 0.5 mg/ml in a 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.

Description

Protein tyrosine kinase (PTK) inhibitors are potential antiproliferative agents for diseases caused by the hyperactivity of PTKs. Tyrphostins are a class of antiproliferative compounds which act as PTK blockers. PTK inhibitors which preferentially inhibit the epidermal growth factor (EGF) receptor kinase block EGF-dependent cell proliferation. AG-183 is an inhibitor of epidermal growth factor (EGF) receptor kinase with an IC₅₀ value of 0.8 μ M in the human epidermoid carcinoma cell line A431.¹

Reference

1. Gazit, A., Yaish, P., Gilon, C., et al. Tyrphostins I: Synthesis and biological activity of protein tyrosine kinase inhibitors. J. Med. Chem. 32(10), 2344-2352 (1989).

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

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.

WARRANTY AND LIMITATION OF REMEDY

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM