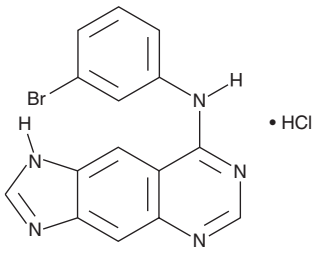
PRODUCT INFORMATION

BPIQ-II (hydrochloride)

Item No. 17226

CAS Registry No.: 171179-37-6
Formal Name: N-(3-bromophenyl)-3H-imidazo[4,5-g]quinazolin-8-amine, monohydrochloride
Synonym: PD 158294
MF: $C_{15}H_{10}BrN_5 \bullet HCl$
FW: 376.6
Purity: ≥98%
UV/Vis.: λ_{max}: 232, 349 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

BPIQ-II (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the BPIQ-II (hydrochloride) in the solvent of choice, which should be purged with an inert gas. BPIQ-II (hydrochloride) is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of BPIQ-II (hydrochloride) in these solvents is approximately 30 and 10 mg/ml, respectively.

BPIQ-II (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BPIQ-II (hydrochloride) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. BPIQ-II (hydrochloride) has a solubility of approximately 0.1 mg/ml in a 1:9 solution of DMSO:PBS (pH 7.2) using this method.We do not recommend storing the aqueous solution for more than one day.

Description

BPIQ-II is a linear imidazoloquinazoline that potently inhibits the tyrosine kinase activity of the epidermal growth factor receptor (EGFR; IC_{50} = 8 pM).[1] It is selective for EGFR over an assortment of other tyrosine and serine/threonine kinases. Cellular studies indicate that BPIQ-II can enter cells and very selectively shut down EGF-stimulated signal transmission by binding competitively at the ATP site of EGFR.[1]

Reference

1. Rewcastle, G.W., Palmer, B.D., Bridges, A.J., *et al.* Tyrosine kinase inhibitors. 9. Synthesis and evaluation of fused tricyclic quinazoline analogues as ATP site inhibitors of the tyrosine kinase activity of the epidermal growth factor receptor. *J. Med. Chem.* **39(4)**, 918-928 (1996).

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