

Tyrphostin hydrochloride

CAS # 175178-82-2

EXIM-INDIS INC
EVOLVING CHEMISTRY

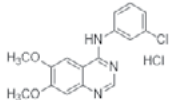
Product In Focus

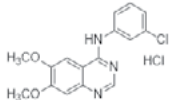
Tyrphostin hydrochloride

INTRODUCTION

Tyrphostin hydrochloride most commonly refers to Tyrphostin AG-1478 hydrochloride, a potent and selective inhibitor of the Epidermal Growth Factor Receptor (EGFR) tyrosine kinase. It is widely used in laboratory research to study cell signaling, cancer growth, and viral interactions. Tyrphostin™ is a general term for a family of small molecules designed to inhibit various receptors and non-receptor tyrosine kinases.

KEY DETAILS

CAS No	175178-82-2
Molecular Formula	C ₁₆ H ₁₄ ClN ₃ O ₂ (base)
Molecular Weight	315.75 g/mol (base)
Formal Name	\(N\)-(3-chlorophenyl)-6,7-dimethoxy-4-quinazolinamine hydrochloride
Common Name	AG-1478 Hydrochloride
Assay/Purity	\(\geq 98\%\)
Solubility	Soluble in DMSO:methanol (1:1) at 10 mg/mL, DMSO (1.5 mg/mL), ethanol (0.5 mg/mL). Insoluble in water.
Storage Temperature	2-8 °C, though sometimes recommended at -20 °C (light-sensitive)
Action	Irreversible inhibitor of EGF receptor kinase; inhibits HER2-Neu, PDGFR, Trk, Bcr-Abl at much higher concentrations.
Structure	



MANUFACTURE

Chemically known as N-(3-chlorophenyl)-6,7-dimethoxy-4-quinazolinamine, it is generally synthesized via the reaction of a quinazoline derivative with an aniline derivative.

APPLICATION

Pharmaceutical / Biomedical Research

- Used as a tyrosine kinase inhibitor in cell-signaling studies
- Helps study EGFR-related pathways and receptor phosphorylation
- Used in cancer research to evaluate cell growth, apoptosis, and invasion mechanisms
- Supports research on kinase-mediated disease pathways and targeted therapy models

Cell Biology / Molecular Biology

- Used to inhibit growth-factor-induced signaling in experimental models
- Helps study MAPK, AKT, and related intracellular signaling pathways
- Used in phosphorylation and receptor activation studies

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Product In Focus

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SPECIFICATIONS

Test	Specification
Description	White to off white powder
Purity	98 %

STORAGE & PRECAUTION

Store at ambient conditions

PACKING

Custom packing available upon request

GMP STATUS

Manufactured under cGMP or non GMP conditions based on customer specifications and intended application.

Exim-Indis offers Tyrphostin hydrochloride on commercial scales and welcomes enquiries. No matter the quantity you need, our exceptional quality and service will make Exim-Indis your supplier of choice. If you need any additional information or SDS, please contact us.