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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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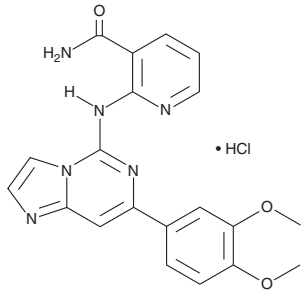
PRODUCT INFORMATION

BAY 61-3606 (hydrochloride)

Item No. 11423

CAS Registry No.: 1615197-10-8
Formal Name: 2-[[7-(3,4-dimethoxyphenyl) imidazo[1,2-c]pyrimidin-5-yl]amino]-3-pyridinecarboxamide, monohydrochloride
MF: $C_{20}H_{18}N_6O_3 \bullet HCl$
FW: 426.9
Purity: ≥98%
UV/Vis.: λ_{max}: 331 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

BAY 61-3606 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the BAY 61-3606 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. BAY 61-3606 (hydrochloride) is soluble in the organic solvent DMSO at a concentration of approximately 10 mg/ml.

Description

BAY 61-3606 is an inhibitor of spleen tyrosine kinase (Syk; K_i = 7.5 nM).[1] It is selective for Syk over Lyn, Fyn, Src, Itk, and BTK (K_is = >4.7 µM for all). BAY 61-3606 inhibits anti-IgE-induced histamine release in isolated human mast cells sensitized with IgE (IC_{50} = 5.1 nM), as well as reduces anti-IgM-induced proliferation of isolated mouse splenic B cells (IC_{50} = 58 nM). It sensitizes MCF-7 human breast cancer cells to apoptosis induced by TNF-related apoptosis-inducing ligand (TRAIL) when used at concentrations ranging from 0.31 to 2.5 µM.[2] BAY 61-3606 inhibits passive cutaneous anaphylaxis in rats (ED_{50} = 8 mg/kg).[1] It reduces tumor growth in an MCF-7 mouse xenograft model when administered at a dose of 50 mg/kg alone or in combination with TRAIL.[2]

References

1. Yamamoto, N., Takeshita, K., Shichijo, M., *et al.* The orally available spleen tyrosine kinase inhibitor 2-[7-(3,4-dimethoxyphenyl)-imidazo[1,2-c]pyrimidin-5-ylamino]nicotinamide dihydrochloride (BAY 61-3606) blocks antigen-induced airway inflammation in rodents. *J. Pharmacol. Exp. Ther.* **306(3)**, 1174-1181 (2003).
2. Kim, S.Y., Park, S.E., Shim, S.M., *et al.* Bay 61-3606 sensitizes TRAIL-induced apoptosis by downregulating Mcl-1 in breast cancer cells. *PLoS One* **10(12)**, (2016).

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