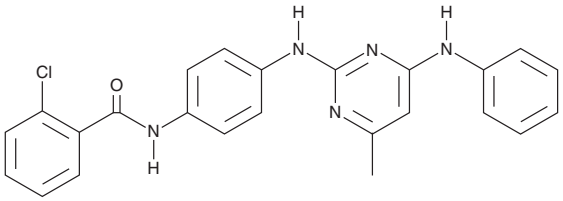
PRODUCT INFORMATION

Aumitin

Item No. 46418

CAS Registry No.: 946293-78-3
Formal Name: 2-chloro-N-[4-[[4-methyl-6-(phenylamino)-2-pyrimidinyl]amino]phenyl]-benzamide
MF: $C_{24}H_{20}ClN_5O$
FW: 429.9
Purity: ≥98%
Supplied as: A 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

Aumitin is supplied as a solid. A stock solution may be made by dissolving the aumitin in the solvent of choice, which should be purged with an inert gas. Aumitin is sparingly soluble (1-10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in ethanol.

Description

Aumitin is an inhibitor of mitochondrial complex I, also known as NADH dehydrogenase, and autophagy.[1] It is selective for mitochondrial complex I over mitochondrial complex II, -III, and -IV at 3 µM and a panel of 417 kinases at 1 µM. However, aumitin does inhibit PI4Kβ and PI3KC2γ. Aumitin inhibits mitochondrial respiration in HeLa cervical and MCF-7 breast cancer cells (IC_{50}s = 0.11 and 0.44 µM, respectively) and starvation- or rapamycin-induced autophagy in MCF-7 cells (IC_{50}s = 0.124 and 0.244 µM, respectively).

Reference

1. Robke, L., Futamura, Y., Konstantinidis, G., *et al.* Discovery of the novel autophagy inhibitor aumitin that targets mitochondrial complex I. *Chem. Sci.* **9(11),** 3014-3022 (2018).

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

SAFETY DATA
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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