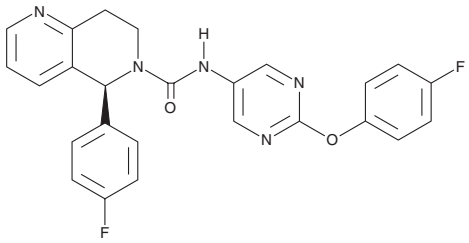
PRODUCT INFORMATION

BAY-899

Item No. 41716

CAS Registry No.:	2471967-92-5
Formal Name:	N-[2-(4-fluorophenoxy)-5-pyrimidinyl]-5-(4-fluorophenyl)-7,8-dihydro-1,6-naphthyridine-6(5H)-carboxamide
MF:	$C_{25}H_{19}F_2N_5O_2$
FW:	459.5
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

BAY-899 is supplied as a solid. A stock solution may be made by dissolving the BAY-899 in the solvent of choice, which should be purged with an inert gas. BAY-899 is sparingly soluble (1-10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in acetonitrile.

Description

BAY-899 is an antagonist of the luteinizing hormone receptor (LHR; IC_{50}s = 185 and 46 nM for the human and rat receptors, respectively).[1] It is selective for LHR over thyroid-stimulating hormone (TSH) and follicle-stimulating hormone (FSH) receptors (IC_{50}s = 24 and >16 µM, respectively, for the human receptors) and a panel of 25 G protein-coupled receptors (GPCRs) at 10 µM. BAY-899 (12.5 mg/kg per day) reduces serum levels of estradiol in female rats.

Reference

1. Wortmann, L., Lindenthal, B., Muhn, P., *et al*. Discovery of BAY-298 and BAY-899: Tetrahydro-1,6-naphthyridine-based, potent, and selective antagonists of the luteinizing hormone receptor which reduce sex hormone levels in vivo. *J. Med. Chem.* **62(22)**, 10321-10341 (2019).

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