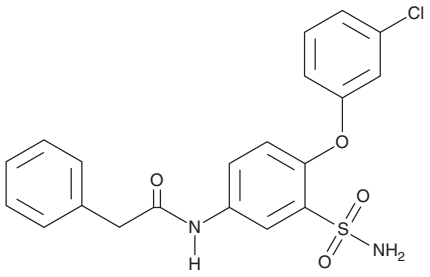
PRODUCT INFORMATION

BAY-1797

Item No. 34229

CAS Registry No.:	2055602-83-8
Formal Name:	N-[3-(aminosulfonyl)-4-(3-chlorophenoxy) phenyl]-benzeneacetamide
MF:	$C_{20}H_{17}ClN_2O_4S$
FW:	416.9
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

BAY-1797 is supplied as a solid. A stock solution may be made by dissolving the BAY-1797 in the solvent of choice, which should be purged with an inert gas. BAY-1797 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of BAY-1797 in these solvents is approximately 30 mg/ml.

Description

BAY-1797 is an antagonist of the purinergic $P2X_4$ receptor (IC_{50} = 0.211 µM for the human receptor).[1] It is selective for $P2X_4$ over $P2X_1$, $P2X_3$, and $P2X_7$ receptors (IC_{50}s = >50, 8.3, and 10.6 µM, respectively, for the human receptors), as well as a panel of G protein-coupled receptors (GPCRs), ion channels, kinases, and transporters at 10 µM. BAY-1797 (50 mg/kg) decreases intraplantar prostaglandin E_2 (PGE_2; Item No. 14010) levels and reduces non-evoked pain-related behavior in the dynamic weight bearing test in a mouse model of inflammatory pain induced by complete Freund's adjuvant (CFA).

Reference

1. Werner, S., Mesch, S., Hillig, R.C., *et al.* Discovery and characterization of the potent and selective P2X4 inhibitor *N*-[4-(3-chlorophenoxy)-3-sulfamoylphenyl]-2-phenylacetamide (BAY-1797) and structure-guided amelioration of Its CYP3A4 induction profile. *J. Med. Chem.* **62(24)**, 11194-11217 (2019).

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