Print Date: Feb 6th 2020

Certificate of Analysis

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Product Name: **SK 609** **Catalog No.: 7039** **Batch No.: 1**

CAS Number: 1092797-77-7

IUPAC Name: 2-chloro-α-methyl-benzenepropanamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{10}H_{14}ClN.HCl$

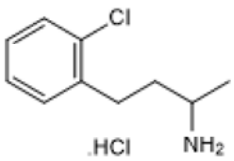
Batch Molecular Weight: 220.14

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.56	6.87	6.36
Found	54.47	6.88	6.31

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Product Name: **SK 609** **Catalog No.: 7039** **Batch No.: 1**

CAS Number: 1092797-77-7

IUPAC Name: 2-chloro-α-methyl-benzenepropanamine hydrochloride

Description:

Dopamine D_3 receptor biased agonist. Preferentially signals via the G protein-dependent pathway (EC_{50} values for G protein and β-arrestin-dependent signaling are 1.1 and 50.2 μM, respectively). Exhibits selectivity for D_3 over D_2 receptors. Improves motor deficits in rodent Parkinson's disease models and ameliorates L-DOPA (Cat. No. 3788) induced abnormal involuntary movements.

Physical and Chemical Properties:

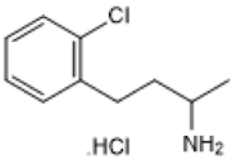
Batch Molecular Formula: $C_{10}H_{14}ClN.HCl$

Batch Molecular Weight: 220.14

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

water to 100 mM
DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Xu *et al* (2017) Functional characterization of a novel series of biased signaling dopamine D_3 receptor agonists. ACS Chem.Neurosci. ***8*** 486. PMID: 27801563.

Simms *et al* (2016) *In vivo* characterization of a novel dopamine D_3 receptor agonist to treat motor symptoms of Parkinson's disease. Neuropharmacology ***100*** 106. PMID: 25896768.

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