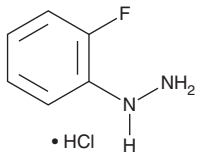
PRODUCT INFORMATION

2-Fluorophenylhydrazine (hydrochloride)

Item No. 46310

CAS Registry No.:	2924-15-4
MF:	$C_6H_7FN_2 \bullet HCl$
FW:	162.6
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

2-Fluorophenylhydrazine (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the 2-fluorophenylhydrazine (hydrochloride) in the solvent of choice, which should be purged with an inert gas. 2-Fluorophenylhydrazine (hydrochloride) is soluble (≥10 mg/ml) in DMSO.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of 2-fluorophenylhydrazine (hydrochloride) can be prepared by directly dissolving the solid in aqueous buffers. 2-Fluorophenylhydrazine (hydrochloride) is soluble (≥10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

2-Fluorophenylhydrazine is a building block.[1-3] It has been used in the synthesis of various small molecules, including derivatives of SR141716 (rimonabant; Item No. 9000484), a positive allosteric modulator (PAM) of metabotropic glutamate receptor 5 (mGluR5), and an inhibitor of dipeptidyl peptidase 4 (DPP-4).

References

1. Katoch-Rouse, R., Pavlova, O.A., Caulder, T., *et al.* Synthesis, structure-activity relationship, and evaluation of SR141716 analogues: Development of central cannabinoid receptor ligands with lower lipophilicity. *J. Med. Chem.* **46(4)**, 642-645 (2003).
2. de Paulis, T., Hemstapat, K., Chen, Y., *et al.* Substituent effects of N-(1,3-diphenyl-1H-pyrazol-5-yl) benzamides on positive allosteric modulation of the metabotropic glutamate-5 receptor in rat cortical astrocytes. *J. Med. Chem.* **49(11)**, 3332-3344 (2006).
3. Yoshida, T., Akahoshi, F., Sakashita, H., *et al.* Discovery and preclinical profile of teneligliptin (3-[(2S,4S)-4-[4-(3-methyl-1-phenyl-1H-pyrazol-5-yl)piperazin-1-yl]pyrrolidin-2-ylcarbonyl]thiazolidine): A highly potent, selective, long-lasting and orally active dipeptidyl peptidase IV inhibitor for the treatment of type 2 diabetes. *Bioorg. Med. Chem.* **20(19)**, 5705-5719 (2012).

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
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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