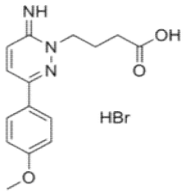
Certificate of Analysis

Product Identification

Catalog number	HB0901
Compound name	SR95531 hydrobromide (gabazine)
Chemical name	6-Imino-3-(4-methoxyphenyl)-1(6H)-pyridazinebutanoic acid hydrobromide
Batch number	E0270-3-4
Batch molecular formula	$C_{15}H_{17}N_3O_3.HBr$
Batch molecular weight	368.23

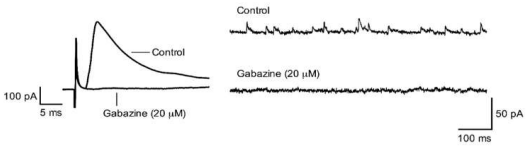
Chemical Structure



Method	QC requirement	QC Result
HPLC	Reverse Phase HPLC shows >98% purity	Meets specification: 100%
NMR	1H NMR in D_2O at 400 MHz consistent with structure and shows <1% of any other impurity	Meets specification
Mass spectrum	Electrospray positive analysis consistent with structure	Meets specification
Microanalysis	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
TLC	TLC analysis in 4:1:1 BuOH:AcOH:water shows one spot under uv	Meets specification: R_f=0.45
Physical appearance	White to off-white solid	Meets specification: White Solid
Solubility	Soluble in water (25 mM) and in DMSO (100 mM)	Meets specification

Biological validation

Fig 1: Gabazine inhibition of evoked and spontaneous $GABA_A$-R mediated IPSCs in mouse cortical neurons



Gabazine is commonly used to reduce levels of inhibition by antagonising $GABA_A$ receptors. It is commonly used at concentrations between 10 – 200μM. Gabazine from Hello Bio blocks spontaneous inhibitory post synaptic currents (IPSC) and evoked IPSCs. It was effective at 1 μM and completely blocked $GABA_A$ receptors at 20 μM.

For assay protocol, see #Protocol 1 in Application Notes below

Produced by	Huw Davies	Signature	
Passed by	Steve Roome	Signature	
		Date	29-02-16

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Hello Bio Limited, Unit 3, IO Centre, Avonmouth, Bristol BS11 0QL. UK
T. +44 (0) 117 318 0505 F. +44 (0) 1179 811 601 customercare@hellobio.com technicalhelp@hellobio.com
Registered office: Unit 3, IO Centre, Avonmouth, Bristol BS11 0QL. UK
Company Registration No. 08891750
hellobio.com