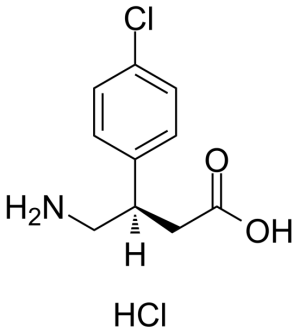
(R)-Baclofen hydrochloride

Cat. No.:	HY-17354A
CAS No.:	63701-55-3
Molecular Formula:	$C_{10}H_{13}Cl_2NO_2$
Molecular Weight:	250.12
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(R)-Baclofen hydrochloride (Arbaclofen hydrochloride) is a selective GABAB receptor agonist[1][2].
IC_{50} & Target	GABAB receptor[1]
In Vivo	(R)-Baclofen hydrochloride (STX 209 hydrochloride) suppresses audiogenic seizures in the Fmr1-knockout mouse on the seizure-resistant C57BL/6 background with an effective dose of 1 mg/kg[3]. Acute intraperitoneal administration of (R)-Baclofen hydrochloride significantly reduces the percent of mice displaying seizures (seizure incidence), with a minimum effective dose (MED) of 1.5 mg/kg[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Mol Med Rep. 2022 May;25(5):154.

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REFERENCES

[1]. Mezler M, et al. Cloning and functional expression of GABA(B) receptors from Drosophila. Eur J Neurosci. 2001 Feb;13(3):477-86.

[2]. Dzitoyeva S, et al. Gamma-aminobutyric acid B receptor 1 mediates behavior-impairing actions of alcohol in Drosophila: adult RNA interference and pharmacological evidence. Proc Natl Acad Sci U S A. 2003 Apr 29;100(9):5485-90. Epub 2003 Apr 11.

[3]. Henderson C, et al. Reversal of disease-related pathologies in the fragile X mouse model by selective activation of GABAB receptors with arbaclofen. Sci Transl Med. 2012 Sep 19;4(152):152ra128.

Caution: Product has not been fully validated for medical applications. For research use only.

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