

Epilepsy Research

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★ CHROMODOMAIN

FEATURED PRODUCT

CHD2 chromodomains (human recombinant) ITEM #: 14773

Source: recombinant N-terminal GST-tagged protein expressed in E. coli • Mr: 50.2 kDa • Chromodomain helicase DNA binding protein 2 (CHD2) is an ATP-dependent chromatin remodeling protein that co-localizes with MyoD and histone H3.3. Loss or mutation of CHD2 has been implicated in epilepsy.

Biochemicals

Item No.	Product Name	Summary
11727	Bicuculline	Competitive GABA _A receptor antagonist that mimics the action of epilepsy and is widely used to induce seizure in hippocampal or cortical neurons
14487	(+)-Pilocarpine (hydrochloride)	Muscarinic M ₁ and M ₂ acetylcholine receptor agonist whose systemic administration is used as an animal model for temporal lobe epilepsy
10008346	Gabapentin	GABA analog that acts as an anticonvulsant with proven analgesic effects in various neuropathic pain syndromes
9000976	Vigabatrin	Irreversibly inhibits the catabolism of GABA by GABA transaminase
10010670	7-Aminoclonazepam-d ₄	An anticonvulsant used for several types of seizures, including myotonic or atonic seizures, photosensitive epilepsy, and absence seizures
13623	Topiramate	Exhibits potent anticonvulsant activity, completely blocking seizures (ED ₅₀ = 39 mg/kg when given orally) in mice in the maximal electroshock seizure test
13644	Aspalatone	Generates antioxidant and neuroprotective effects against kainic acid-induced epilepsy in rat hippocampus
14792	ML-297	Selective GIRK1/2 activator (EC ₅₀ = 0.16 μM) that delays seizure onset and prevents convulsions in two different mouse models of epilepsy
15428	Lamotrigine	Anticonvulsant that inhibits voltage-gated sodium channels (Nav1.2, Nav1.5, and Nav1.8 with IC ₅₀ s = 10, 62, and 96 μM, respectively)
15422	Carbamazepine	Blocks voltage-gated sodium channels (Nav1.7-, Nav1.3-, and Nav1.8-type channels with IC ₅₀ s = 406, 900, and 138 μM, respectively); also inhibits L-type Ca ²⁺ channels (IC ₅₀ = 974 μM) and potentiates GABA _A receptors (IC ₅₀ > 3 mM)

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Biochemicals Continued

Item No.	Product Name	Summary
13897	Phenylpiracetam	A nootropic derivative of the GABAergic agent piracetam
16133	Procarbazine (hydrochloride)	A methyl hydrazine derivative used in combination with other agents to reduce the frequency of epileptic seizures in patients with pharmaco-resistant epilepsy
14536	MPEP (hydrochloride)	A potent, highly selective non-competitive antagonist at the mGlu5a receptor subtype (IC ₅₀ = 36 nM)
14961	MTEP (hydrochloride)	A negative allosteric modulator of the mGlu5a receptor subtype (K _i = 42 nM; IC ₅₀ = 110 nM)
11989	NPS 2390	A noncompetitive antagonist of mGluR1 and mGluR5 (IC ₅₀ s = 5.2 and 82 nM, respectively)
9001820	Levetiracetam	An antiepileptic compound that binds the synaptic vesicle protein SV2A (pIC ₅₀ = 5.7)

Antibodies

Item No.	Product Name
13704	Cav3.2 Calcium Channel Monoclonal Antibody (Clone S55-10)
13701	Cav2.4 Calcium Channel Monoclonal Antibody (Clone S10-7)
10600	GABAA Receptor α -subunit (N-Term) Polyclonal Antibody
10009760	NMDA Receptor NR2B Subunit (Phospho-Tyr1336) Polyclonal Antibody
10009761	NMDA Receptor NR2B Subunit (Phospho-Tyr1472) Polyclonal Antibody
10607	NMDA Receptor NR1 Subunit Monoclonal Antibody
10009759	NMDA Receptor NR2B Subunit (Phospho-Tyr1252) Polyclonal Antibody
10608	NMDA Receptor NR2A Subunit Polyclonal Antibody
10609	NMDA Receptor NR2B Subunit Polyclonal Antibody

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