



Catalog Number:	MC11062	Product Type:	Small Molecule
Bio-Activity:	GPR17 agonist	CAS #:	130798-51-5
Research Categories:	Neuroscience, immunology	Chemical Name:	3-(2-Carboxy-4,6-dichloroindol-3-yl)propionic acid
Solubility:	Soluble in DMSO (up to 15 mg/ml with warming) or in Ethanol (up to 10 mg/ml).	Molecular Formula:	C ₁₂ H ₉ Cl ₂ NO ₄
Purity:	> 98%	Molecular Weight:	302.11
Format:	Powder	Ship Temp:	Ambient
Storage:	Room Temperature		

Application Notes

Description/Data:

MDL29,951 is a new, highly specific, small molecule activator of GPR171 that has been shown to be active in intact cells [1]. The ability to specifically activate GPR17 allows for the study of the exact role GPR17 plays in the maturation of oligodendrocytes and may lead to a therapeutic strategy to promote myelin repair. Antagonist for the strychnine-insensitive glycine binding site of the NMDA receptor (IC₅₀ = 170 nM) [2].

References:

- 1) Hennen et al. (2013), Decoding Signaling and Function of the Orphan Protein-Coupled Receptor GPR17 with a small molecule agonist; Sci. Signal., 6 ra93
- 2) Salituro et al. (1992), 3-(2-Carboxyindol-3-yl)propionic Acid-Based Antagonists of the N-Methyl-D-aspartic Acid Receptor Associated Glycine Binding Site; J. Med. Chem., 35 1791

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