



# MDL-29951

# Data Sheet

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<b>Catalog Number:</b>	MC11062	<b>Product Type:</b>	Small Molecule
<b>Bio-Activity:</b>	GPR17 agonist	<b>CAS #:</b>	130798-51-5
<b>Research Categories:</b>	Neuroscience, immunology	<b>Chemical Name:</b>	3-(2-Carboxy-4,6-dichloroindol-3-yl)propionic acid
<b>Solubility:</b>	Soluble in DMSO (up to 15 mg/ml with warming) or in Ethanol (up to 10 mg/ml).	<b>Molecular Formula:</b>	C12H9Cl2NO4
<b>Purity:</b>	> 98%	<b>Molecular Weight:</b>	302.11
<b>Format:</b>	Powder	<b>Ship Temp:</b>	Ambient
<b>Storage:</b>	Room Temperature		

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## 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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