

Supplementary Material

Thiazole Derivatives as Modulators of GluA2 AMPA Receptors: Potent Allosteric Effects and Neuroprotective Potential

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Supplemental Table S1 Whole-Cell Recordings for Compound MMH-1

Receptor Name/Compounds abbreviation	GluA2 (Glutamate Alone)	MMH-1	Applying Glutamate Alone After MMH-1	n	A/A _i
Amplitude (pA)	1151±59	325±26 ^{**}	1154±60	6	3.54±0.2
t deact (ms)	N/R	2.9±0.2 [*]	N/R	6	N/R
t des (ms)	N/R	2.1±0.1 [*]	N/R	6	N/R

Supplemental Table S2 Whole-Cell Recordings for Compound MMH-2

Receptor Name/Compound s abbreviation	GluA2 (Glutamate Alone)	MMH-2	Applying Glutamate Alone After MMH-2	n	A/A _i
Amplitude (pA)	1135±53	408±32 [*]	1139±56	6	2.78±0.1
t deact (ms)	N/R	2.2±0.1 ^{ns}	N/R	6	N/R
t des (ms)	N/R	2.6±0.1 ^{ns}	N/R	6	N/R

Supplemental Table S3 Whole-Cell Recordings for Compound MMH-3

Receptor Name/Compounds abbreviation	GluA2 (Glutamate Alone)	MMH-3	Applying Glutamate Alone After MMH-3	n	A/A _i
Amplitude (pA)	1161±62	289±29 ^{**}	1163±64	6	4.02±0.2
t deact (ms)	N/R	3.6±0.3 ^{**}	N/R	6	N/R
t des (ms)	N/R	1.9±0.1 ^{**}	N/R	6	N/R

Supplemental Table S4 Whole-Cell Recordings for Compound MMH-4

Receptor Name/Compounds abbreviation	GluA2 (Glutamate Alone)	MMH-4	Applying Glutamate Alone After MMH-4	n	A/A _i
Amplitude (pA)	1182±76	246±27**	1178±75	6	4.81±0.2
t deact (ms)	N/R	4.1±0.4**	N/R	6	N/R
t des (ms)	N/R	1.7±0.1**	N/R	6	N/R

Supplemental Table S5 Whole-Cell Recordings for Compound MMH-5

Receptor Name/Compounds abbreviation	GluA2 (Glutamate Alone)	MMH-5	Applying Glutamate Alone After MMH-5	n	A/A _i
Amplitude (pA)	1175±71	190±20***	1174±66	6	6.18±0.3
t deact (ms)	2.3±0.1	5.4±0.5***	N/R	6	N/R
t des (ms)	2.7±0.1	1.2±0.1***	N/R	6	N/R

FigureS1. 2-(3,4-dimethoxyphenyl)-4-methyl-N-(3,4,5-trimethoxyphenyl)thiazole-5-carboxamide (MMH1)

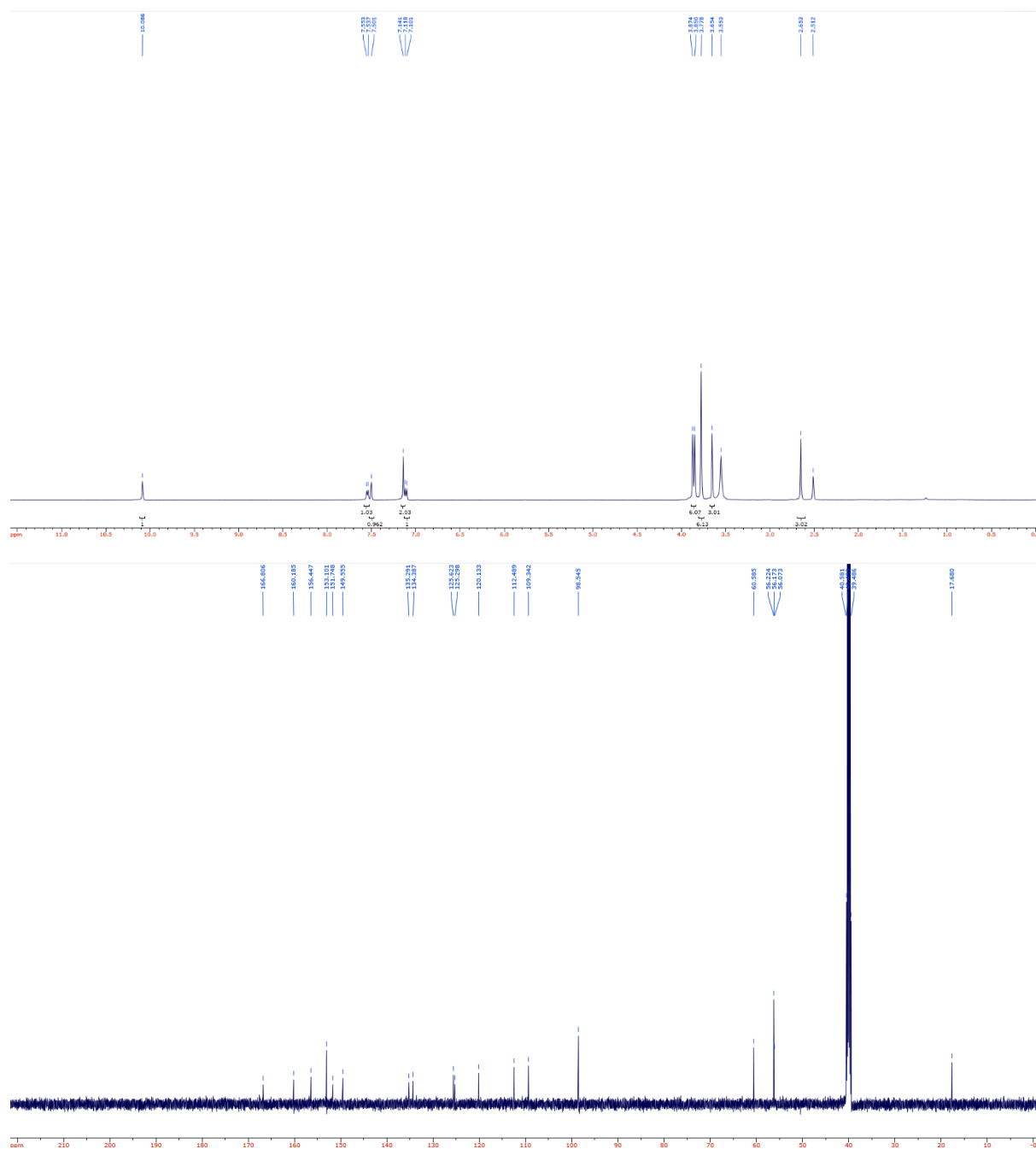


Figure S3. N,2-bis(3,4-dimethoxyphenyl)-4-methylthiazole-5-carboxamide (MMH3)

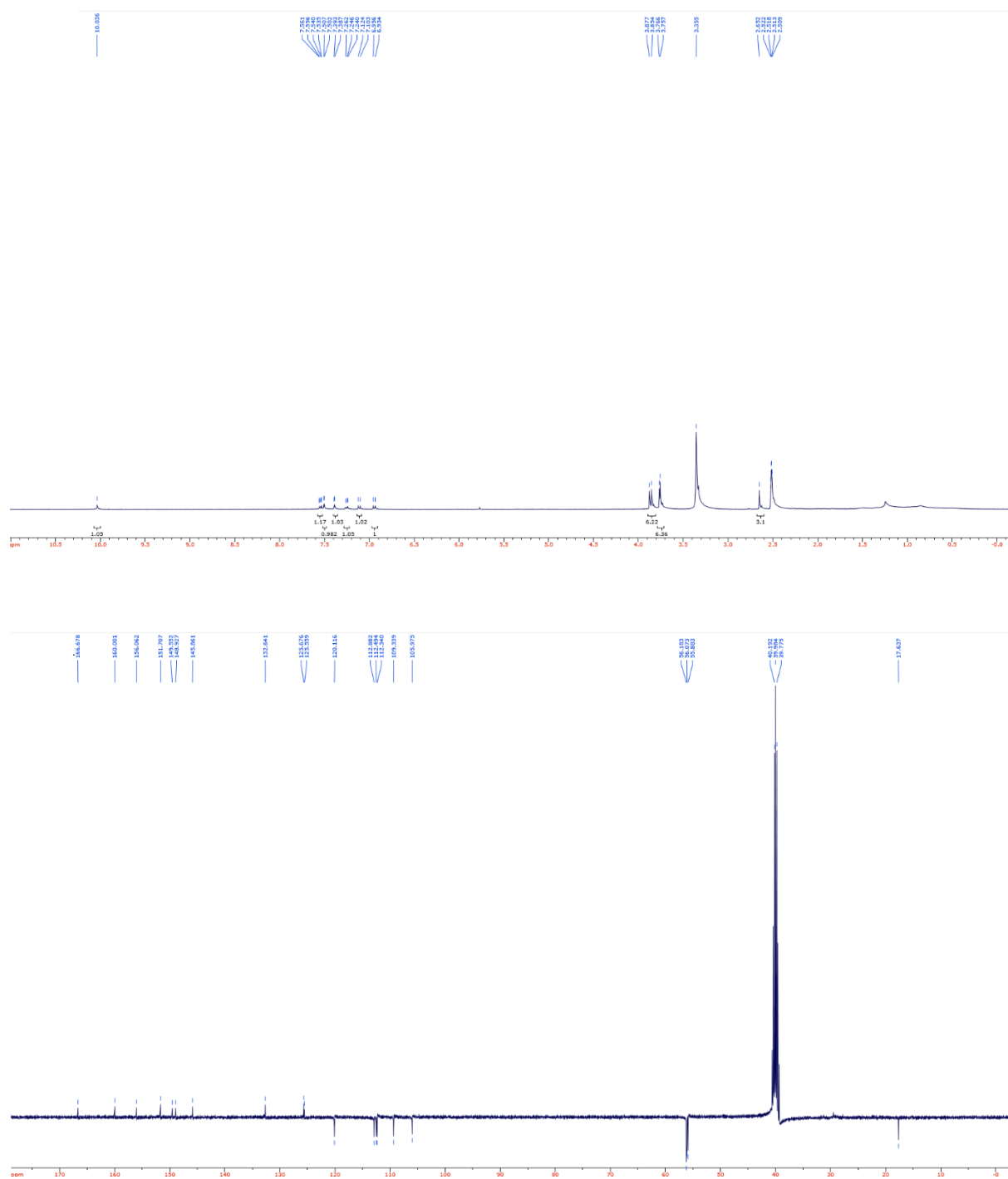


Figure S4. 2-(3,4-dimethoxyphenyl)-N-(3,5-dimethoxyphenyl)-4-methylthiazole-5-carboxamide (MMH4)

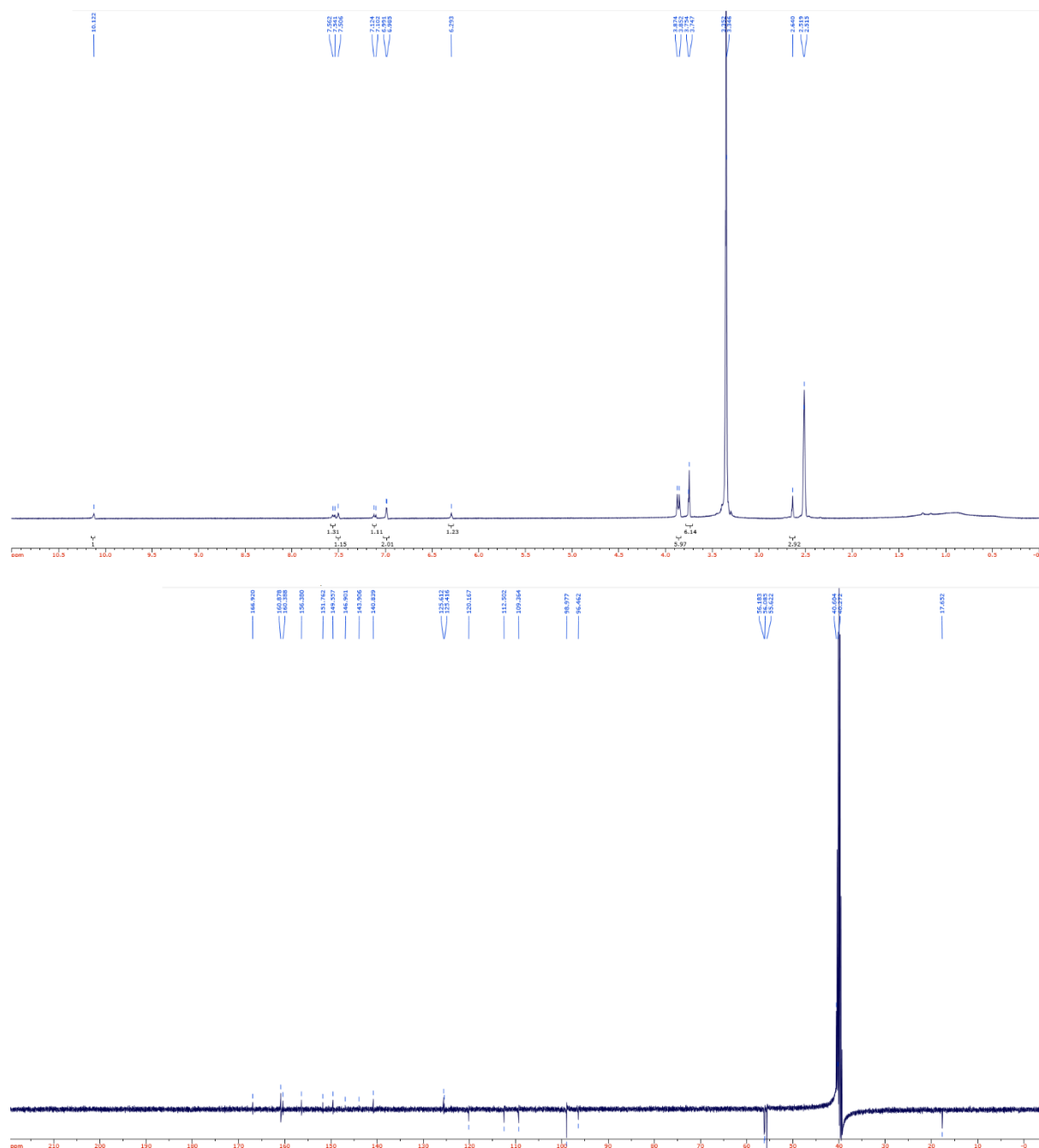


Figure S5. 2-(3,4-dimethoxyphenyl)-4-methyl-N-(4-(methylthio)phenyl)thiazole-5-carboxamide (MMH5)

